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CSAT (41-43)

KEY & EXPLANATIONS

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CSAT (Number Series & Missing Numbers; English Comprehension)

1. Find the missing number in series marked by '?'

2, 3, 8, 63, ?

- (a) 3968
- (b) 256
- (c) 3863
- (d) 175

Solution: A

The pattern is,

$$2^2 = 4 - 1 = 3$$

$$3^2 = 9 - 1 = 8$$

$$8^2 = 64 - 1 = 63$$

$$63^2 = 3969 - 1 = 3968$$

3968 is the missing number.

2. Find the missing number in series marked by '?'

3, 7, 16, 35, '?', 153

- (a) 72
- (b) 64
- (c) 134
- (d) 74

Solution: D

The pattern is,

$$3 \times 2 + 1 = 7$$

$$7 \times 2 + 2 = 16$$

$$16 \times 2 + 3 = 35$$

$$35 \times 2 + 4 = 74$$

$$74 \times 2 + 5 = 153$$

74 is the missing number.

3. Find the missing number in series marked by '?'

6, 3, 3, 4.5, '?'

- (a) 12
- (b) 7.5
- (c) 9
- (d) 8

Solution: C

The pattern is,

$$6 \times 0.5 = 3$$

$$3 \times 1 = 3$$

$$3 \times 1.5 = 4.5$$

$$4.5 \times 2 = 9$$

9 is the missing number.

4. Find out the missing term in the following given table?

7	9	8
8	9	?
4	9	6
60	90	70

- (a) 6
- (b) 8
- (c) 12

(d) 7

Solution: B

The pattern is

Last Row numbers = (First row number x Second number row) + Third row number

$$7 \times 8 + 4 = 60$$

$$9 \times 9 + 9 = 90$$

Similarly,

$$8 \times 8 + 6 = 70$$

Hence, the missing number is 8.

Directions for the following (one) item:

Read the following passage and answer the item that follow. Your answer to this item should be based on the passage only.

Passage - 1

The two criteria that an innovator must satisfy are whether the innovation or invention adds to existing technical knowledge and whether it is inventive enough. Patent filings are seen as a measure of the spread of science and technology in a country. Patent protection also provides monopoly rights to the inventor.

5. Which of the following is the **most crucial and logical inference** that can be made from the above passage?
- (a) Enforcement of IPR is critical for boosting research and development in a country
 - (b) There are several patent claims which fail the claim of patentability
 - (c) The filing of patents does not automatically guarantee the patent rights
 - (d) None of the above

Answer. C.

It is clear based on a reading of the passage that C is the correct answer.

6. Find the missing sequence in series marked by '?'

BXM, EUP, HRS, '?'

- (a) KOV
- (b) RPN
- (c) ZXY
- (d) VTS

Solution: A

The pattern is as follows,

$$B + 3 = E + 3 = H + 3 = K$$

$$X - 3 = U - 3 = R - 3 = O$$

$$M + 3 = P + 3 = S + 3 = V$$

So, the missing series is KOV.

7. Find the missing sequence in series marked by '?'

G2X, J4V, M8T, '?', S32P

- (a) P64R
- (b) P16R
- (c) Q16S
- (d) Q8E

Solution: B

$$G + 3 = J + 3 = M + 3 = P + 3 = S$$

$$2 * 2 = 4 * 2 = 8 * 2 = 16 * 2 = 32$$

$$X - 2 = V - 2 = T - 2 = R - 2 = P$$

So, the missing series is P16R

8. Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?

_BC_Q_AB_P_R

- (a) SPQCR
- (b) ARPCQ
- (c) APRCQ
- (d) CRBQP

Solution: C

The series is ABC/PQR/ABC/PQR.

Here, the missing sequence is APRCQ.

9. Find the missing sequence in series marked by '?'

FK27, LQ64, RW125, '?'

- (a) XC216
- (b) XD256
- (c) WC216
- (d) YC256

Solution: A

$$F+6 = L + 6 = R + 6 = X$$

$$K+6 = Q + 6 = W + 6 = C$$

$$3^3 \rightarrow 4^3 \rightarrow 5^3 \rightarrow 6^3 = 216$$

Hence, missing sequence is XC216.

Directions for the following (one) item:

Read the following passage and answer the item that follow. Your answer to this item should be based on the passage only.

Passage - 2

The Paris Agreement adopted last year marks the beginning of a new age in climate change response. The global climate pact will have a major impact on public health policy as countries take measures on adaptation and mitigation. Strengthening adaptation is a must in the face of climate change. This includes plans to protect the human health from air pollution, heat waves, floods, droughts and the degradation of water resources.

10. Which of the following option(s) is/are valid statement(s) that support the emphasis on adaptation as suggested in the passage?

1. At present, more than 7 million deaths occur worldwide every year due to air pollution.
2. In 2017, the world had 124 acutely hungry people
3. Epidemics such as cholera, dengue and extreme weather events such as heat waves and floods have increased

Select correct code from below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3

Answer: D

All the three are issues that can be addressed or mitigated by increasing focus on adaptation. Hence all three are correct. Thus D is the correct answer.

11. If all the vowels are removed from the alphabet, which letter will be 8th to the right of the 4th letter from the left?

- (a) Q
- (b) R
- (c) P
- (d) S

Solution: C

New sequence after arrangement

B C D F G H J K L M N P Q R S T V W X Y Z

Now, 8th to the right of the 4th from left is $\Rightarrow (8 + 4)$ th from left

that is 12th from left = P

Direction for the following 3 (three) items: Consider the given information and answer the three items that follow:

R \$ 5 4 I J M @ P 3 © A Q T 2 W 1 % U V 6 B E N 8 * 7 δ D

12. Which of the following is the fourth to the left of the twelfth from the left end?

- (a) @
- (b) \$
- (c) P
- (d) M

Solution: A

The fourth to the left of the twelfth from the left end can be written as

12th – 4th = 8th from the left end is @.

13. How many such numbers are there in the above arrangement, each of which is immediately preceded by a letter but not immediately followed by a symbol?

- (a) Two
- (b) Three
- (c) One
- (d) None

Solution: A

There are 2 such combinations , T2W and V6B

14. How many such consonants are there in the above arrangement, each of which is immediately preceded by a consonant and immediately followed by a number?
- (a) Two
 - (b) One
 - (c) Three
 - (d) None

Solution: B

There is one such combination i.e QT2.

Read the following passage and answer the question that follow

Reviving the practice of using elements of popular music in classical composition, an approach that had been in hibernation in the United States during the 1960s, composer Philip Glass (born 1937) embraced the ethos of popular music in his compositions. Glass based two symphonies on music by rock musicians David Bowie and Brian Eno, but the symphonies' sound is distinctively his. Popular elements do not appear out of place in Glass' s classical music, which from its early days has shared certain harmonies and rhythms with rock music. Yet this use of popular elements has not made Glass a composer of popular music. His music is not a version of popular music packaged to attract classical listeners; it is high art for listeners steeped in rock rather than the classics.

15. The passage addresses which of the following issues related to Glass' s use of popular elements in his classical compositions?
- (a) How it is regarded by listeners who prefer rock to the classics
 - (b) How it has affected the commercial success of Glass's music
 - (c) Whether it has contributed to a revival of interest among other composers in using popular elements in their compositions
 - (d) Whether it has caused certain of Glass's works to be derivative in quality

Correct Answer: D

One of the important points that the passage makes is that **when Glass uses popular elements in his music, the result is very much his own creation** (it is "distinctively his").

In other words, **the music is far from being derivative**. Thus one issue that the passage addresses is the one referred to in answer choice E — it answers it in the negative. The *passage does not discuss* the impact of Glass' s use of popular elements on listeners, on the commercial success of his music, on other composers or on Glass' s reputation, so none of Choices A through D is correct.

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Neha Singh

thnx insight nd team for all ur motivation,

Nd m a person with very weak immune system nd multiple organ disfunctioning, prone to minor weather nd circumstances changes, facing all these tantrums since 2009, so m habitual to breaks in routine nd planning again nd again, nd dont knw whether this spiral hve END or not,,,, so i always do my best with my circumstances without any complaint, bcoz this hs become a reality of my lyf nd i cnt escape from it whether being in my hometown or in Lbasna or at any other place with any other work than study, i'll be back to slightly normal routine of study perhaps from 14 or at max 15 april.,bcoz these dayz having some neuro nd eye issues so cant read more thn 10 to 15 minute in one shot...,nd yes i really want to end this journey as happy all is well story,, BE WITH ME TILL THE END, I REALLY NEED YOUR SUPPORT ND GUIDANCE, THNKU TEAM

Sonali Palkar

Thank you so much Sir. Your review is most important part of my preparation.

In fact, whatever positive improvements seems in me till today is only because of you team Insights. Whole team Insights are really doing great work, not only designing best test everyday to us but also pushing us towards our goal. And telling about perseverance is only because of your teaching how to stay with our goal at any situation. Proud to be an Insightian.

Thanks again. 😊

<http://disq.us/p/28l4yvy>

Rurmita

@ insights

Thank you so much for your appreciating words .. I'm thinking to continue my dance after mains I really love to dance ...and all your suggestions is added to my list ...from Day 1 getting 46.67% to Day 30 getting 70% accuracy I really tried hard learning from my mistakes and others too..and insights your suggestions really helped me to keep me moving...😊 thank you and loads of respect to the Team and all of your selfless efforts..

RamadeviChelliah

Thank you Insights...I will recover soon...and I never want to give up my commitment and passion of my dream...I ll work with perseverance...more harder...thank you Insights for such a beautiful message today... I too saw the strong and commitment of that lady bureaucrat who wanted to do good to people in situations...It is really great right...I will never give up on my passion... insights Thank you again... I ll be good soon

Poonam yadav

I'm happy that today I got soo many questions correct. Just through logic and intuition ...n I need to put more focus on important committee s and env. Bodies ...thanks insightsbiggest advantage of Insta is that I m learning new tactics to apply in a question n get the right answerit's been „31 days of Insta n I feel so confident in attempting questions ...although I got only 8marks yesterdayI thought that art n culture is daunting for 99% aspirants n I should not beworried about that...your advice of culture topics maps is very nice n I've downloaded some of them n would revise them daily ...also maps of national parks sanctuaries thanks insights soooooo much 🙏

Runjhun

I am! Thank you for these tests. :) I get uneasy if I don't solve them within 24 hours of being posted and making notes.

It's reassuring that @Insights is the only constant thing in a time like this. Thank you!

<http://disq.us/p/28mtksp>
