# KHAN GLOBAL STUDIES

## IB SA & MTS Exam Date : 24.03.2023 (Shift – 3)

### PART(A) : General Awareness

Q.1 Which of the following cities has been included in the top ten cities in the Sustainable Development Goals (SDG) Urban Index and Dashboard 2021-22 by NITI Aayog?
A). Jaipur　　　　B). Bengaluru
C). Indore　　　　D). Tiruchirappalli

Q.2 Which of the following historical caves of India are located in the state of Bihar?
A). Barabar Caves　　B). Ellora Caves
C). Kanheri Caves　　D). Ajanta Caves

Q.3 In which classical dance forms the performance includes a Sutradhara or Nattuvanar who is the conductor of the entire performance?
A). Odissi　　　　B). Kathak
C). Bharatnatyam　　D). Kuchipudi

Q.4 In the Global Hunger Index 2022, India's rank is:
A). 107th　　　　B). 116th
C). 109th　　　　D). 121st

Q.5 Which of the following dances is performed during festivals like Eid-al-Fitr and Ramzan in Jammu & Kashmir?
A). Rouf dance　　B). Kud dance
C). Rasa Lila dance　D). Dumhal dance

Q.6 Which state bagged the highest number of medals during the Khelo India Youth Games 2022?
A). Maharashtra　　B). Tamil Nadu
C). Punjab　　　　D). Haryana

Q.7 In the RT-PCR examination, the term Ct stands for:
A). Computed Tomography
B). Corona Threshold
C). Cycle Threshold
D). Computed Topography

Q.8 Which of the following statements is INCORRECT?
A). All chordates have a ventral nerve cord.
B). All chordates have paired gills pouches
C). All chordates have a notochord.
D). All chordates are triploblastic.

Q.9 To which state does the popular folk singer Teejan Bai belong to?
A). Assam　　　　B). Chhattisgarh
C). Manipur　　　D). Gujarat

Q.10 Which of the following processes cause cooling?
A). Translocation　　B). Respiration
C). Evaporation　　D). Fermentation

Q.11 Which team won the Ranji Trophy 2022 final?
A). Mumbai　　　　B). Punjab
C). Madhya Pradesh D). Gujarat

Q.12 Where did the 36th National Games take place in September-October 2022?
A). Karnataka　　B). Andhra Pradesh
C). Maharashtra　　D). Gujarat

Q.13 The white blood cells in human blood are also called:
A). melanocytes　　B). granulocytes
C). erythrocytes　　D). leukocytes

Q.14 How many species of Plasmodium have long been recognised to infect human nature to cause malaria?
A). 3  B). 2
C). 1  D). 4

Q.15 _____ is a free-living animal.
A). Tapeworm  B). Leech
C). Wuchereria  D). Planaria

Q.16 Light falling on colloidal particles leads to scattering of light. This phenomena is called:
A). Brownian effect
B). Tyndall effect
C). Bowl effect
D). Mendel's effect

Q.17 The Uttar Pradesh Government has made it mandatory for all students and teachers in madrasas of the state to sing _____ before commencing classes as per the order released by the Uttar Pradesh Government, in September 2022.
A). the National Anthem
B). Vande Mataram
C). a patriotic song
D). a prayer song

Q.18 _____ is a percussion instrument.
A). Flute  B). Clarinet
C). Cymbal  D). Veena

Q.19 In March 2022, the Brihanmumbai Municipal Corporation and the Maharashtra government have their first-ever climate action plan, Mumbai Climate Action Plan (MCAP), to eliminate carbon emissions by
A). 2050  B). 2040
C). 2060  D). 2030

Q.20 In which year did the government set up the Central Pollution Control Board (CPCB)?
A). 1970  B). 1980
C). 1984  D). 1974

| Answer key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | D | 6 | D | 11 | C | 16 | B |
| 2 | A | 7 | C | 12 | D | 17 | A |
| 3 | D | 8 | A | 13 | D | 18 | C |
| 4 | A | 9 | B | 14 | D | 19 | A |
| 5 | A | 10 | C | 15 | D | 20 | D |

## PART B: Quantitative Aptitude

Q.1 The average weight of X, Y and Z is 50 kg. The average weight of X and Y is 44.5 kg and the average weight of Y and Z is 53.5 kg. If the weights of X, Y and Z are p, q and r, respectively, then the value of $\frac{p+q}{r}$, correct to two decimal places, is _____.
A). 0.95  B). 1.46
C). 1.55  D). 0.45

Q.2 The LCM of two prime numbers x and y (x > y) is 667. What is the value of 5y−3x ?
A). 28  B). 14
C). −28  D). −14

Q.3 A can complete a piece of work alone in 20 days, while B can do it alone in 30 days. They worked together for 5 days and left. The rest of the work is completed by C alone in 7 days. In what ratio should the payment be divided among them?
A). 2 : 6 : 9  B). 4 : 5 : 6
C). 3 : 2 : 7  D). 1 : 8 : 9

Q.4 Find the average of the squares numbers which lie between 20 and 70.
A). 43.5  B). 44.5
C). 46.5  D). 41.5

Q.5 The difference between the two numbers is 1140. If 6% of one number is equal to 10% of the other number, find the greater number.
A). 2850  B). 2500
C). 2600  D). 1660

Q.6 A builder appoints three construction workers Jai, Naresh and Sunil on one of his sites. They take 20, 30 and 60 days, respectively, to do a piece of work. How many days will it take Jai to complete the entire work if he is assisted by Naresh and Sunil together on alternate days? Jai starts the work on the first day alone.

(a) $13\frac{1}{2}$ days      (b) 10 days

(c) 14 days      (d) $12\frac{1}{2}$ days

Q.7 If $x + \frac{1}{x} = 6$ and $y = \frac{2^{18}+2^{20}+2^{22}}{2^{20}+2^{22}+2^{24}}$, then the ratio of $\frac{3x}{2x^2+2-5x} : y$ is _____ .

A). 12:7      B). 5:7

C). 7:5      D). 7:12

Q.8 Mohit bought a house for ₹64,000, promising to pay after 1.5 years with an interest at the rate of 5% per annum compounded half yearly. Find the interest paid after one and a half years.

A). ₹4,921      B). ₹5,126

C). ₹2,564      D). ₹2,041

Q.9 A and B working separately can finish a work in 15 days and 20 days, respectively. If they work on alternate days, A starting first, and if the work goes on for 8 days, what part of the work will be left unfinished?

A). 8/15      B). 3/5

C). 7/60      D). 1/4

Q.10 $1 + 4 + 9 + 16 + 25 + \cdots + 81 + 100 + 81 + \cdots + 16 + 9 + 4 + 1 = ?$

A). 670      B). 690

C). 550      D). 620

Q.11 A shopkeeper increases the selling price of an article by 40% due to which his profit percentage increases from 15% to 40%. What is the percentage increase in the cost price?

A). 10%      B). 20%

C). 25%      D). 15%

Q.12 A wall of dimensions $50 \text{ m} \times 30 \text{ m} \times 40 \text{ m}$ is to be built with bricks of length 3 m, breadth 2 m, and height 1 m. The contractor has ordered 6500 bricks. How many more bricks would be required?

A). 7000      B). 3500

C). 6500      D). 10000

Q.13 If $(3^2)^{\sqrt{x}} = 41^{\sqrt{x}} - 40^{\sqrt{x}}$, then $x^2$ is equal to:

A). 4      B). 16

C). 20      D). 12

Q.14 Station A is 530 km away from station B. A train starts from Station A at 9:00 A.M. towards Station B at 90 km/h, while another train starts from Station B at 10:00 A.M. towards Station A at 90 km/h. At what time do they meet?

A). 12:26:30 P.M.      B). 12:26:20 P.M.

C). 12:26:50 P.M.      D). 12:26:40 P.M.

Q.15 In a mixture of 90 L, the ratio of milk and water is 4 : 5. If this ratio is to be 5 : 4, then the quantity of milk to be added further is _____.

A). 24.5 L      B). 22.5 L

C). 17.5 L      D). 20.5 L

Q.16 The simple interest on ₹6,000 in 4 years at R% interest per annum is equal to the simple interest on ₹9,000 at the rate of 12% per annum in 2 years. What is the value of R?

A). 8      B). 10

C). 9      D). 11

Q.17 If 15% of 55% of a number is 2475, then 41% of that number is:

A). 15000      B). 12300

C). 12000      D). 10200

Q.18 The cost price of 15 apples is equal to the selling price of 10 apples and the discount on 12 apples is equal to the profit on 4 apples. What is the percentage point difference between the profit percentage and discount percentage?

A). 30       B). 50

C). 20       D). 40

Q.19 The ratio of two numbers is 5 : 4. A number y is then subtracted from each of the two given numbers so that the ratio of the resultant numbers becomes 2 : 1. What would be the ratio of the resultant numbers when the same number y is added to each of the two initial numbers?

A). 5 : 4       B). 8 : 7

C). 3 : 2       D). 7 : 6

Q.20 Two trains start at the same time from A and B and move towards each other at the rates of 10 km/h and 27 km/h, respectively. When they meet, it is found that one train has travelled 340 km more than the other. The distance between A and B is _____.

A). 786 km       B). 486 km

C). 589 km       D). 740 km

| Answer key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | B | 6 | A | 11 | D | 16 | C |
| 2 | A | 7 | A | 12 | B | 17 | B |
| 3 | C | 8 | A | 13 | B | 18 | D |
| 4 | A | 9 | A | 14 | D | 19 | B |
| 5 | A | 10 | A | 15 | B | 20 | D |

## PART(C): Numerical, Logical, Analytical Ability & Reasoning

Q.1 In a certain code language, 'greater than person' is written as 476, 'there is no greater' is written as 8243, 'no person is right' is written as 2817, and 'disability no greater' is written as 548. What is the code for 'right' in that language?

A). 1       B). 2

C). 8       D). 4

Q.2 In this question, a group of letters is coded using numbers/symbols as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer.

| # | 8 | % | @ | 6 | & | 1 | * | ! | 7 |
|---|---|---|---|---|---|---|---|---|---|
| A | L | B | T | Q | I | E | D | F | U |

**Condition 1:** If a word starts with a vowel but ends with a consonant then codes for first and last letter to be reversed.

**Condition 2:** If there are more than two vowels in a word, then the first vowel is to be coded as 1, the second vowel as 2 and so on.

**Condition 3:** If a word starts with a consonant and also ends with a vowel then vowels are to be coded after coding all the consonants.

What is the code for "BEAUTIFUL"?

A). %123@&:!78       B). %1#7&@!78

C). %123@4!58       D). %1#7@4!78

Q.3 Select the number from among the given options that can replace the question mark (?) in the following series.

**5, 20, 80, 320, 1280, ?**

A). 4760       B). 4430

C). 4890       D). 5120

Q.4 S16H is related to P22K in a certain way. In the same way, M28N is related to J34Q. To which of the following is K32P related following the same logic?

A). G42T          B). F40U

C). H38S          D). D38W


Q.5 Q walks 100 m towards the north. Then he turns right and walks 150 m. Then he turns right and walks 170 m. Then he turns left and walks 80 m. Finally, he turns left and walks 70 m. How many metres and in which direction is he from the starting position?

A). 230 m towards the east

B). 240 m towards the east

C). 200 m towards the west

D). 250 m towards the west


Q.6 What approximate value should come in place of the question mark (?) in the following equation?

**48.09% of 1698 + 59% of 2387.98 – ? = 1225**

A). 1060          B). 1000

C). 1076          D). 1040


Q.7 Eight people E, F, G, H, J, K, L and M are sitting around a circular table facing the centre but not necessarily in the same order. F is sitting second to the left of K. H is an immediate neighbour of K. There are only three people sitting between H and E. Only one person sits between L and E. M is sitting to the immediate left of L. G is to the immediate left of F. What is the position of K with respect to H?

A). Fourth to the right

B). Third to the left

C). Fourth to the left

D). Second to the right


Q.8 Which two signs should be interchanged to make the following equation correct?

**16 × 25 ÷ (121 – 11) = 389**

A). (– and ×)          B). (+ and –)

C). (× and ÷)          D). (– and ÷)


Q.9 Study the given arrangement of 2-digit numbers and symbols and answer the question that follows:

(Left) 65 67 87 86 & 43 32 37 @ 27 % 29 76 71 49 $ 52 23 # (Right)

What is the sum of the 8th number from the left and the 5th number from the right end in the above series?

A). 103          B). 109

C). 97          D). 106


Q.10 Select the number from among the given options that can replace the question mark (?) in the following series.

**5, 6, 10, 19, 35, 60, ?**

A). 122          B). 118

C). 106          D). 96


Q.11 If 1st January 1997 was a Wednesday, what was the day of the week on 24th June 1997?

A). Wednesday          B). Tuesday

C). Sunday          D). Monday


Q.12 Read the given statements and conclusions carefully. Decide which of the given conclusions is true based on the statements.

**Statements:**

$Z < S < E = J, J \geq T > G = V$

**Conclusions:**

I. V < E

II. T > Z

A). Either conclusion I or II is true

B). Only conclusion II is true

C). Neither conclusion I nor II is true

D). Only conclusion I is true

**Q.13** There are six boxes, namely P, Q, R, S, T, U, which are kept one above the other. R is kept immediately above P. T is kept immediately above U. Only two boxes are kept between T and S. T is not at the topmost or at the lowermost position. P is above U. Q is kept immediately above S. R is neither kept immediately above nor immediately below T. U is kept at one of the positions above S. There are only 2 boxes between R and U. Which of the following boxes is kept immediately below U?

A). Q          B). R

C). S          D). T

**Q.14** A, B, C, D, E and F are six members in a family. The family consists of two married couples. The family members are a lawyer, teacher, businessman, engineer, accountant and doctor. A, the lady teacher, is married to the businessman. The lawyer is married to B, who is a doctor. F, the accountant, is the son of B and the brother of E. C, the lawyer, is the daughter-in-law of A. E is the unmarried engineer. A's son's son is F. How is D related to F?

A). Paternal grandfather

B). Brother

C). Daughter's son

D). Father

**Q.15** Seven boxes – A, B, C, D, E, F and G are kept one above the other in a stack. G is kept at the bottommost position. A is kept immediately above G. There are 2 boxes between F and A. E is kept third from the bottom. B is kept immediately above D. How many boxes are there between F and E?

A). Three          B). Two

C). One          D). Four

**Q.16** In the given letter-cluster pairs, the first letter-cluster is related to the second letter-cluster following a certain logic. Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

**JHL : MKO :: PNR : SQU**

A). ZXC : VUX      B). WTX : ZXA

C). VTS : YWV      D). WUX : YXB

**Q.17** Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

**IMPI _ _ EIMP _ _ GEIM _ _ NGEI _ _ INGE**

A). GINNMIPP      B). GNNIPIMP
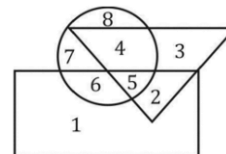
C). NGINPIMP      D). GNNIMIPP

**Q.18** Nine persons - C, D, B, A, J, F, G, H and K - are sitting in a straight line facing north, but not necessarily in the same order. G sits second to the right of C. B sits fourth to the left of G. D is neither an immediate neighbour of K nor B. F sits fourth to the right of C and second to the left of K. K sits fifth to the right of A. Only three people sit between J and A. Who among the following sits third to the right of H?

A). F          B). C

C). D          D). G

**Q.19** Four letter-cluster pairs have been given, out of which three are alike in some manner, and one is different. Select the one that is different.

A). GFI – TUR      B). KJM - PQN

C). QPR – KJI      D). DCF - WXU

**Q.20** The following question is based on the given diagram. The triangle represents 'teachers', the circle represents 'players', and the rectangle represents 'musicians'.



Which numbered space in the diagram represents teachers who are also players and musicians?

A). 3          B). 5

C). 4          D). 2

## PART(D): English Language

Q.1 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Our solar system is a part of the Milky Way <u>galaxy</u>.
A). universe
B). cosmos
C). creation
D). No substitution required

Q.2 Select the most appropriate option to fill in the blank.
This story is _____ the partition of India and Pakistan.
A). by                    B). about
C). on                    D). for

Q.3 Select the INCORRECTLY spelt word.
A). Murmur              B). Culture
C). Sculptur            D). Puncture

Q.4 Select the most appropriate meaning of the given word.
**Absolute**
A). Limited            B). Restricted
C). Complete          D). Yielding

Q.5 Select the option that can substitute the underlined segment in the given proverb correctly. If there is no need to substitute it, select 'No substitution required'.
Strike while <u>the person is not ready.</u>
A). everybody is resting
B). No substitution required
C). the iron is hot
D). everything is cold

Q.6 Select the most appropriate option to fill in the blank.
We took a break after we _____ for two days continuously.
A). had worked          B). work
C). have worked         D). are working

Q.7 Select the most appropriate meaning of the given idiom.
**By and large**
A). On the contrary   B). At some future time
C). Certainly         D). On the whole

Q.8 Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.
The whole story narrated by the girl was _____ (accurate).
A). strict            B). false
C). just              D). correct

Q.9 Select the most appropriate option to fill in the blank.
Sarju sat next to her mother _____ her doll tightly in her arms.
A). to hold           B). hold
C). held              D). holding

Q.10 Select the correct punctuation mark to fill in the blank.
Bobby _____ I didn't know you could play the mouth organ.
A). semicolon (;)     B). dash (–)
C). comma (,)         D). colon (:)

Q.11 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. Once, I went for a wedding with my cousins to the neighbouring village.
B. We children enjoyed ourselves thoroughly.
C. In those days, a wedding was a great event.
D. We would eat and play endlessly, savouring the freedom because all the elders were busy.
A). ABDC              B). ACDB
C). ADCB              D). ADBC

Q.12 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Any <u>inventory</u>, of Darjeeling is incomplete if a tea plantation is not included in it.

A). itinerary

B). record

C). No substitution required

D). index

Q.13 Select the INCORRECTLY spelt word.

A). Waitor          B). Sailor

C). Author          D). Actor

Q.14 Select the most appropriate option to fill in the blank.

The artist was shocked ___ that somebody had scratched his painting ___ a knife.

A). see, for          B). seeing, by

C). to see, with      D). to be seeing, from

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

The Grand Central Terminal is ___ most famous station in the world.

A). an

B). a

C). No word required

D). the

Q.16 Select the most appropriate option to fill in the blank.

___ antique shop will be a good place to see old clocks.

A). A

B). An

C). No word required

D). The

Q.17 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

We have <u>constructed</u> a rough estimate of expenditure for this project.

A). No substitution

B). built

C). manufactured

D). prepared

Q.18 Select the sentence with correct punctuation and capitalisation.

A). Well, that's all Ive got to say, about mars.

B). Well thats all I've got to say about Mars.

C). "Well, that's all I've got to say about mars?"

D). "Well, that's all I've got to say about Mars."

Q.19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. During that time she would forget all her work and listen with the greatest concentration.

B. Later, she could repeat the entire text by heart.

C. My grandmother never went to school so she could not read.

D. Every Wednesday, a magazine called Karmaveera would come, and I would read a story to her.

A). DACB          B). BCAD

C). CCAD          D). ABCD

Q.20 Select the most appropriate option to fill in the blank.

My grandfather ___ for a morning walk everyday irrespective of the weather outside.

A). is going          B). go

C). has gone          D). goes

## PART(E): General Studies

Q.1 Which of the following banks are public sector banks?
(a) Canara Bank        (b) Bank of Baroda
(c) ICICI Bank         (d) Indian Bank
A). (c), (d) and (e)
B). (b), (c) and (d)
C). (a), (b) and (c)
D). (a), (c) and (e)

Q.2 Which of the following states has literacy rate less than 80%, as per census 2011?
A). Goa
B). Tripura
C). Arunachal Pradesh
D). Himachal Pradesh

Q.3 The North-Eastern Areas (Reorganisation) Act was passed in the year ___.
A). 1971                B). 1989
C). 1952                D). 1963

Q.4 ___ has been appointed as the Attorney General (AG) of India by President Droupadi Murmu, in October 2022.
A). R. Venkataramani
B). Mukul Rohatgi
C). Gooden Essaji Vahanvati
D). KK Venugopal

Q.5 Which schedule of the Constitution of India specifies allocation of powers and functions between Union and States?
A). 5th                 B). 7th
C). 10th                D). 3rd

Q.6 The Drafting Committee of the Indian Constitution had __ .
A). six members        B). nine members
C). eight members    D). seven members

Q.7 Regional Rural Banks (RRBs) in India were established by the Government of India, under the provisions of RRBs Act, _____.
A). 1980               B). 1978
C). 1974               D). 1976

Q.8 ___ has the lowest recorded of population density having just 17 per square kilometre, as per census 2011.
A). Mizoram            B). Arunachal Pradesh
C). Goa                D). Sikkim

Q.9 Which of the following has been recognised by the Supreme Court of India as a fundamental right which is explicitly not given as a fundamental right in the Constitution of India?
A). Right to Privacy
B). Right to Freedom of Religion, Cultural and Educational Rights
C). Right against Exploitation
D). Right to Constitutional Remedies

Q.10 Which of the following districts has population growth rate less than 10 per cent, as per census 2011?
A). Surat              B). Hugli
C). Nashik             D). Jaipur

Q.11 Which Emperor adopted the Zabat system of measurement of land?
A). Sher Shah
B). Akbar
C). Jahangir
D). Bairam Khan

Q.12 Which of the following is an example of a physical feature formed by extensive gulley erosion?
A). Chambal basin
B). Backwaters of Kerala
C). Rann of Kutch
D). Malda gap

Q.13 The first English newspaper India 'Bengal Gazette' was started by ___.
A). Subash Chandra Bose
B). Richard Wellesley
C). James Augustus Hicky
D). John Adams

Q.14 As per the Economic Survey of India 2021-22 report (as per advance estimates), the service sector has contributed nearly ___ of India's 2021-22 GDP.
A). 37%       B). 53%
C). 15%       D). 75%

Q.15 As per _____, the President shall address both Houses of Parliament assembled together on the commencement of the first parliament session of each year.
A). Article 53(1)     B). Article 41(2)
C). Article 93(1)     D). Article 87(1)

Q.16 India's total area accounts for about _____ of the total geographical area of the world.
A). 2.4 per cent      B). 4.4 per cent
C). 1.4 per cent      D). 3.4 per cent

Q.17 The Gurjara-Pratihara dynasty was founded by _____ in the region of Malwa in the eighth century.
A). Vatsaraja        B). Nagabhata I
C). Mihira Bhoja     D). Dhruva

Q.18 Which of the following is a Constitutional body of the Government of India?
A). Union Public Service Commission (UPSC)
B). Lokpal and Lokayuktas (CVC)
C). NITI Aayog
D). National Human Rights Commission

Q.19 The statement of estimated receipts and expenditure of the Government of India is presented to the Parliament every year as per _____ of the Indian Constitution.
A). Article 121        B). Article 112
C). Article 123        D). Article 110

Q.20 Who founded the Arya Women's Society/Arya Mahila Samaj at Pune in 1882?
A). Pandita Ramabai Saraswati
B). Fatima Sheikh
C). Savitribai Phule
D). Tarabai Shinde

| Answer key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | C | 6 | D | 11 | A | 16 | A |
| 2 | C | 7 | D | 12 | A | 17 | B |
| 3 | A | 8 | B | 13 | C | 18 | A |
| 4 | A | 9 | A | 14 | B | 19 | B |
| 5 | B | 10 | B | 15 | D | 20 | A |

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## PART(A) : General Awareness

**Q.1** Under which scheme shall the Landholder Farmer families with total cultivable holding up to 2 hectares be provided with a benefit of ₹6,000 per annum per family payable in three equal instalments of ₹2,000 every four months?
A). Pradhan Mantri Krishi Sinchai Yojana
B). Pradhan Mantri Kisan Samman Nidhi
C). Pradhan Mantri Agriculture Fund
D). Pradhan Mantri Kisan Maan Dhan Yojana

**Q.2** Who among the following is NOT considered as the trinity of Carnatic music?
A). Muthuswami Dikshitar
B). Charumathi Ramachandran
C). Tyagaraja
D). Shyama Shastri

**Q.3** In which year was the National Air Sports Policy launched?
A). 2021　　　　　B). 2022
C). 2019　　　　　D). 2020

**Q.4** Who among the following became the first Indian to win the prestigious Zurich Diamond League Final 2022 in Switzerland?
A). P V Sindhu　　　B). Sakshi Malik
C). Neeraj Chopra　　D). Bajrang Punia

**Q.5** Which of the following compounds chemical name is sodium hydrogencarbonate?
A). Washing soda
B). Bleaching powder
C). Plaster of Paris
D). Baking soda

**Q.6** In which year did Prime Minister Narendra Modi launch the National Vehicle Scrappage Policy?
A). 2020　　　　　B). 2021
C). 2019　　　　　D). 2018

**Q.7** Purandara Dasa is popularly known as the _____ .
A). father of theatre art
B). father of Carnatic Music
C). father of Hindustani Music
D). father of Kuchipudi

**Q.8** _____ is NOT a greenhouse gas.
A). $NO_2$　　　　　B). $CH_4$
C). $CO_2$　　　　　D). CO

**Q.9** Who among the Mughal emperors built Buland Darwaza or the loft gateway at Fatehpur Sikri?
A). Akbar　　　　　B). Jahangir
C). Humayun　　　　D). Aurangzeb

**Q.10** Which of the following acids is NOT present in fruits or vegetables?
A). Tartaric acid　　B). Citric acid
C). Methanoic acid　D). Oxalic acid

**Q.11** To which form of dance, one of the five great epics of Tamil Literature, 'Silappatikaram' (2nd Century CE) has a direct reference?
A). Bharatanatyam
B). Mohiniyattam
C). Kathak
D). Kuchipudi

Q.12 ___ is the chemical formula of baking soda.
a) $NaHCO_3$
b) $Na_2SO_4$
c) $Na_2CO_3$
d) $Na_2HCO_3$

Q.13 In _____, Namami Gange Programme, an Integrated Conservation Mission was approved as a Flagship Programme by the Union Government of India.
a) 2014
b) 2017
c) 2016
d) 2015

Q.14 What is the name of the campaign started by the Ministry of Tribal Affairs and Central TB Division, Ministry of Health on 7th January 2022 for active case finding for TB (Tuberculosis) in 174 tribal districts of India?
a) Amantran
b) Aashwasan
c) Agaman
d) Awaahan

Q.15 What is the total number of medals won by Maharashtra at the 36th National Games 2022?
a) 140
b) 130
c) 129
d) 133

Q.16 Which of the following folk dances is known as 'parrot dance' in Chhattisgarh?
a) Suwa Dance
b) Karma Dance
c) Raut Nacha
d) Kaksar Dance

Q.17 In RNA of humans, adenine pairs with _____.
a) thymine
b) guanine
c) uracil
d) cytosine

Q.18 Which of the following is the strongest base?
a) Sodium hydroxide
b) Barium hydroxide
c) Aluminium hydroxide
d) Ammonium hydroxide

Q.19 In which of the following ocedid an international team of researchers find that acidity levels in the western region are raising 3 to 4 times faster than any other oceacross the world as of 2022?
a) Atlantic Ocean
b) Arctic Ocean
c) Pacific Ocean
d) Indian Ocean

Q.20 As per which of the following banned the use of chlorofluorocarbon (CFC) compounds, as well as other ozone depleting chemicals?
a) Vienna Convention
b) The Paris Agreement
c) Kyoto Protocol
d) Montreal Protocol

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | B | 6 | B | 11 | A | 16 | A |
| 2 | B | 7 | B | 12 | A | 17 | C |
| 3 | B | 8 | D | 13 | A | 18 | A |
| 4 | C | 9 | A | 14 | B | 19 | B |
| 5 | D | 10 | C | 15 | A | 20 | D |

## PART(B): Quantitative Aptitude

Q.1 Compound interest on a sum, when interest is compounded annually, equals Simple interest if time is:
a) 1.5 years
b) 0.5 year
c) 2 years
d) 1 year

Q.2 Which of the following offers is better for the shopkeeper?
(1) buy 2 get 1 free
(2) buy 3 get 2 free
(3) buy 3 get 5 free
a) Scheme 3
b) Scheme 2
c) Scheme 2 and 3
d) Scheme 1

**Q.3** The ratio of income of A to that of B is 3 : 5. Expenditure of A is 7/12 of his income and expenditure of B is 8/15 of his income. The difference of their expenditures is ₹14,300. Find the income of A.
a) ₹46,800　　　　　b) ₹65,812
c) ₹45,600　　　　　d) ₹44,429

**Q.4** Sumanth invested a sum of money at r% rate of interest per annum, compounded annually. The sum invested amounted to ₹6,05,000 at the end of two years and to ₹8,05,255 at the end of five years. Find the value of r.
a) 12　　　　　b) 9
c) 8　　　　　d) 10

**Q.5** A closed cylinder with a base radius of 14 m and height of 21 m is to be made with a metallic sheet of width 20 m. What is the length of sheet required if wastage is negligible? [Use π = 22/7]
a) 150 m　　　　　b) 132 m
c) 154 m　　　　　d) 120 m

**Q.6** Find the average of all natural numbers lying between 50 and 100.
a) 75.5　　　　　b) 74
c) 74.5　　　　　d) 75

**Q.7** A swimmer, whose speed in 15 km/h in still water goes 30 km downstream and comes back. He takes 4 hours 30 minutes for the whole journey. What is the speed of the stream, in km/h?
a) 3　　　　　b) 6
c) 4　　　　　d) 5

**Q.8** In a 13 L mixture, the ratio of milk and water is 3 : 2. If 3 L of this mixture is replaced by 3 L of milk, then what will be the ratio of milk and water in the newly formed mixture?
a) 13 : 9　　　　　b) 9 : 4
c) 13 : 12　　　　　d) 13 : 4

**Q.9** Anu can type 40 pages of a book in 10 hours. Anu and Mohit together can type 270 pages in 54 hours. In what time (in hours) can Mohit alone type 20 pages?
a) 40　　　　　b) 20
c) 10　　　　　d) 30

**Q.10** The difference between two numbers is 760. If 12% of one number is equal to 20% of the other number, then find the greater of the two numbers.
a) 1800　　　　　b) 1140
c) 1240　　　　　d) 1900

**Q.11** A completes one-third of the work in 5 days. He is then assisted by B, and they together finish the remaining work in 6 days. B alone can complete the entire piece of work in ____.
a) 18.5 days　　　　　b) 18 days
c) 20.5 days　　　　　d) 22.5 days

**Q.12** A horse is tied with a 7 m long rope at each vertex of a field that is in the shape of an equilateral triangle. Each of its sides is at least 14 m long. What is the total area of the field that is grazed by these three horses? [Use π = 22/7]
a) 92 m²　　　　　b) 84 m²
c) 74 m²　　　　　d) 77 m²

**Q.13** The value of $(1 + (1 - 2)^{-1} + 2 - (1 - 2)^{-2})^2$ is:
a) 2　　　　　b) −1
c) 1　　　　　d) 0

**Q.14** The value of $\dfrac{2^{2k+1}-2^k\times 2^{k+2}}{2^k\times 2^{k+3}-2^2\times 2^k}$ is:
a) -1/2　　　　　b) $2^k$
c) 1　　　　　d) $1/2^k$

Q.15 Five consecutive even numbers are written in descending order. If 6, 8 and 10 are added to the first, second and third numbers, respectively, and 13 is added to each of the last two numbers, the new sum of the numbers becomes 120% of the sum of the initially given consecutive even numbers. Find the average of the initially given three middle numbers.

a) 47          b) 46
c) 49          d) 50

Q.16 79.98% of 599.99 + 32.99% of 400.009 – 48.062% of 149.98 = ? (approximately)

a) 220          b) 184
c) 165          d) 540

Q.17 The number that is to be added to 15% of 420 to have the sum as 25% of 356 is _____.

a) 21          b) 29
c) 35          d) 26

Q.18 Find the sum of all the two-digit numbers which are divisible by each of 2, 3 and 4.

a) 444          b) 452
c) 432          d) 421

Q.19 If $\frac{a}{b} = \frac{2}{3}$ and $\frac{b}{c} = \frac{4}{5}$, then $\frac{a+b}{b+c}$ is _____.

a) 27/17          b) 20/27
c) 19/27          d) 15/27

Q.20 In covering a distance of 30 km, Amit takes 2 hours more than Sameer. If Amit doubles his speed, he will take 1 hour less than Sameer if Sameer does not change his speed of travel. Amit's original speed is _____.

a) 10 km/h          b) 5 km/h
c) 20 km/h          d) 25 km/h

# PART(C): Numerical, Logical, Analytical Ability & Reasoning

Q.1 Select the number from among the given options that can replace the question mark (?) in the following series.

**203, 199, 208, 192, 217, 181, ?**

a) 230          b) 245
c) 229          d) 239

Q.2 In a Science test among 6 students, Hansraj scored equal to Varun. Nandkishor scored more than Varun but less than Poonam. Pranjal scored more than Sam but less than Varun. Who scored the second lowest in the Science test?

a) Poonam          b) Pranjal
c) Nandkishor          d) Sam

Q.3 P, Q, R, S, T, U, V and W are sitting in a round circle, facing the centre. P is third to the left of S. P is second to the right of T, who is an immediate neighbour of both R and V. W is not the neighbour of P. S is an immediate neighbour of both U and W. U is second to the left of T. Q is fourth to the right of V. Who is to the immediate right of V?

a) U          b) T
c) R          d) S

Q.4 R ranks 23rd in a class of 76 students. What is his rank from the last?

a) 54th          b) 55th
c) 57th          d) 61st

**Q.5** Find the approximate value of X in the given equation.

**9318 + 719.479 – X = 8935.625**
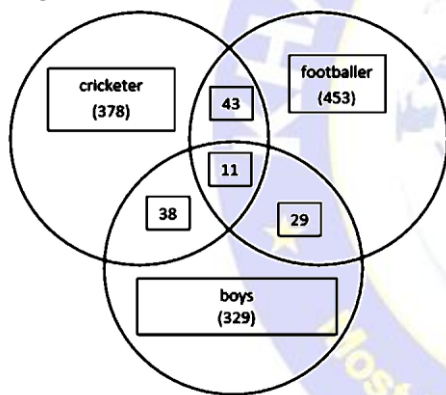
a) 970      b) 1084
c) 1098      d) 1102

**Q.6** In the given letter-cluster pairs, the first letter-cluster is related to the second letter-cluster following a certain logic. Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

**GLY : BGT**
**OLP : JGK**

a) STL : NOG      b) EIN : ACJ
c) YRD : UNX      d) CBP : VWL

**Q.7** The following question is based on the given diagram.



The boys who are cricketers and footballers are indicated by which number?

A). 43      B). 29
C). 38      D) 11

**Q.8** Rohit is looking for his brother. He started from a point and went 110 m towards the west before turning to his left. Then he went 40 m, turned to his left and went 50 m to look for his brother at his uncle's place. His brother was not there. From there, he went 120 m to his north before meeting his brother at point X. What is the shortest distance between point X and the starting point of Rohit?

A). 120 m      B). 140 m
C). 100 m      D). 130 m

**Q.9** Study the following arrangement of two digit numbers and symbols to answer the question given below

**37 43 87 & 32 54 @ % 89 65 44 $ 67 34 # 78**

Which is the 8th term to the right of 15th from the right end in the above series?

A). 54      B). 32
C). 89      D). 65

**Q.10** Select the number from among the given options that can replace the question mark (?) in the following series.

**11, 19, 35, 59, ?, 131**

A). 89      B). 87
C). 91      D). 85

**Q.11** Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

A). MQUY      B). TXBF
C). ORVZ      D). JNRV

**Q.12** The question that follows is based on the given 3-digit numbers.

275, 463, 567, 428, 394, 663, 129

If 6 is added to the first digit of every number, in how many numbers will the first digit be exactly divisible by the second digit?

A). Two      B). One
C). Three      D). Four

**Q.13** Read the following information carefully and answer the questions given below.

A+B me A is the daughter of B.

A – B me A is the husband of B.

A * B me A is the brother of B.

If R is the mother of P, then which of the following is true?

A). P + R – Q      B). Q – P + R
C). P + Q – R      D). R + Q – P

**Q.14** In a certain code language, 'bike roads highways cars' is written as 'od Ik sk jk'. 'jeep scooter highways bus' is written as 'mj jk dn ho', 'bus cycle link express' is written as 'gt fa mj Ik', and 'express ways without toll' is written as 'sk mn ho gt'. What is the code for 'bus' in the same language?

A). mj          B). od

C). gt          D). Ik

**Q.15** Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

**A_CO_ _A_ _OST_ _CO_ _AC_ _ST**

A). TSCACACSTOC    B). CSTCCACSTCO

C). STCACCSTOOA    D). SACCCACOCST

**Q.16** A, B, C, D, E, F and G are sitting in a straight line facing north. C sits third to the right of B. A sits second to the right of C. G is an immediate neighbour of both C and D. G sits fourth to left of E. E sits at one of the extreme ends of the line. Who is/are sitting to the left of G?

A). B and D       B). C and F

C). A and E       D). Only D

**Q.17** Eight people are living on eight different floors of the building in such a way that the ground floor is numbered 1, the floor above that is numbered 2, and so on till the top floor is numbered 8. Only two people live between C and E. Only two people live between E and D. F lives on the topmost floor. G lives immediately above B. A lives on one of the floors below E but above D and H. D lives on the ground floor. How many floors are there between the floors on which C and H live?

A). Four        B). Three

C). One        D). Two

**Q.18** If '+' me'-', '-' me'×', '×' me'÷', and '÷' me'+', then what is the value of the following expression?

**18 – 18 ÷ 3 – 72 × 12 + 4 – 6**

A). 333        B). 329

C). 318        D). 345

**Q.19** In the given letter-cluster pairs, the first letter-cluster is related to the second letter-cluster following a certain logic. Study the given pairs carefully, and from the given options, select the pair that follows the same logic.

**GJM : CFI :: LOR : HKN**

A). PTX : LPU      B). QSW : NPS

C). QTW : MPS      D). RUY : QSZ

**Q.20** In this question, a group of digits/symbols is coded using the letters as per the table given below and the conditions which follow. The correct combination of codes following the conditions is your answer.

| Digits / Symbols | 9 | $ | 6 | % | 1 | & | 3 | 8 | 4 |
|---|---|---|---|---|---|---|---|---|---|
| Code | Y | J | L | M | T | U | E | W | Q |

**Condition 1:** If the first and the last elements are numbers, then both the numbers are coded as the code for the last number.

**Condition 2:** If the third element is a symbol, then the code for the symbol is exchanged with the code for the fifth element.

**Condition 3:** If the fourth element is an odd number, then it is to be coded as #.

What is the code for 94$3&3?

A). EQU#EU      B). YQJEUE

C). YQU#UE      D). EQU#JE

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | A | 6 | A | 11 | C | 16 | A |
| 2 | B | 7 | D | 12 | C | 17 | A |
| 3 | B | 8 | C | 13 | C | 18 | C |
| 4 | A | 9 | D | 14 | A | 19 | C |
| 5 | B | 10 | C | 15 | B | 20 | D |

## PART(D): English Language

**Q.1** Select the INCORRECTLY spelt word.

A). Quarral       B). General

C). Mineral       D). Several

**Q.2** Select the most appropriate option to fill in the blank.

What is Rachit doing? He _____ his bath.

A). has           B). is having

C). had           D). will have

**Q.3** Select the most appropriate option to fill in the blank.

The town's people used the bank clock _____ the time.

A). checked       B). check

C). to check      D). checking

**Q.4** Select the most appropriate ANTONYM of the given word to fill in the blank.

Accessible

This area is _____ for civilians.

A). restricted    B). reachable

C). possible      D). open

**Q.5** Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required".

All of a sudden, we began to feel <u>slightly</u>, uncomfortable.

A). No substitution required

B). rarely

C). finely

D). thinly

**Q.6** Select the most appropriate option to fill in the blank.

The school _____ closed tomorrow.

A). is remaining    B). closes

C). will remain     D). has remained

**Q.7** Select the INCORRECTLY spelt word.

A). Appear       B). Approve

C). Appoint      D). Approche

**Q.8** Select the most appropriate option that can substitute the underlined segment in the given phrase. If there is no need to substitute it, select 'No substitution required".

A leopard does not change its <u>coat</u>.

A). spots

B). stripes

C). blots

D). No substitution required

**Q.9** Select the most appropriate article to fill in the blank.

He was born into _____ middle-class Tamil family.

A) the

B). No article required

C), an

D). a

**Q.10** Four 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.   Most Hindus believe that going to Kashi and worshipping Lord Vishweshvara is the ultimate punya.

B.   This old lady also believed in this, and her struggle to go there was described in that novel.

C.   When I was a child, a novel called 'Kashi Yatre', was appearing as a serial in the Kannada weekly 'Karmaveera'.

D.   It was the story of an old lady and her ardent desire to go to Kashi or Varanasi.

A). C, D, A, B        B). A, D, B, C

C). D, A, C, B        D). C, B, D, A

Q.11 Select the most appropriate meaning of the given word.

**Remote**

A). Approachable    B). Distant

C). Relevant       D). Public

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

The trains _____ this route run very fast.

A). in             B). over

C) on            D). for

Q.13 Select the most appropriate article to fill in the blank.

Dr. Abdul Kalam is known as _____ 'Missile Man of India'.

A). the

B). a

C). an

D). No article required

Q.14 Select the most appropriate option to fill in the blanks.

The fauna _____ around Darjeeling includes several species of ducks, teals, plovers and gulls that pass Darjeeling _____ migrating to and from Tibet.

A). finds, as long as beyond

B). find, when

C). found, while

D). finding, as soon as upon

Q.15 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The <u>manufacturing</u> of the bridge started in 1932 and it was completed in 1937.

A). creation

B). development

C). No substitution required

D). construction

Q.16 Select the sentence with the correct punctuation and capitalization.

A). "Is Sumeet on a day's leave today?"

B). "Is Sumeet on a days leave today?"

C). Is sumeet on a day's leave today?

D). Is Sumeet on a day's leave today.

Q.17 Select the correct punctuation mark to fill in the blank.

Yes _____ you can have this chocolate.

A). colon (:)       B). semicolon (;)

C). comma (,)      D). dash (-)

Q.18 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

The boys played a jinx on the old shopkeeper by dropping a dead mouse in a jar of candy.

A). prank

B). No substitution required

C). hoax

D). jibe

Q.19 Four 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.   Storytelling is not easy.

B.   During my childhood, my grandfather would tell me stories lying under the dark starry nights.

C.   It requires the proper modulation of voice, in order to create an atmosphere of horror, surprise, humour or peace.

D.   During those storytelling nights, I have travelled with my grandfather to the battlefield of Haldighati in Rajasthan and cried for the dead horse, Chetak.

A). A, B, C, D      B). A, B, D, C

C). A, C, B, D      D). A, D, C, B

**Q.20** Select the most appropriate meaning of the given idiom.

**Sticky fingers**

A). A habit to interfere

B). A habit of licking fingers

C). A tendency to forget

D). A tendency to steal

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | A | 6 | C | 11 | B | 16 | A |
| 2 | B | 7 | D | 12 | C | 17 | C |
| 3 | C | 8 | A | 13 | A | 18 | A |
| 4 | A | 9 | D | 14 | C | 19 | C |
| 5 | A | 10 | A | 15 | D | 20 | D |

## PART(E): General Studies

**Q.1** Which of the following statements about India's first union budget post-independence is INCORRECT?

A). It was presented on 26th November 1947.

B). RK Shanmukham Chetty presented the first Union budget.

C). James Wilson presented the first Union budget.

D). Jawaharlal Nehru was the prime minister of India at the time of the first budget.

**Q.2** Which of the following is NOT a Fundamental Duty in the Indian Constitution?

A). To defend the country and render national service when called upon to do so.

B). To reside and settle in any part of the territory of India.

C). To value and preserve the rich heritage of our composite culture.

D). To develop a scientific temper, humanism and the spirit of inquiry and reform.

**Q.3** How many Assembly Constituencies does Rajasthan have as of now in 2022?

A). 205          B). 209

C). 200          D). 207

**Q.4** In which year was India's National Human Rights Commission set up?

A). 1990          B). 1991

C). 1993          D). 1985.

**Q.5** In which year was the Agreement on Trade and Intercourse between the Tibet region of China and India signed?

A). 1966          B). 1954

C). 1962          D). 1951

**Q.6** As of March 2022, what is the number of Scheduled Small Finance Banks in India?

A). 12          B). 23

C). 19          D). 7

**Q.7** Which of the following is India's northernmost Trans-Himalayan Range?

A). Karakoram range

B). Pir Panjal

C). Ladakh

D). Zanskar

**Q.8** _____ has/have been borrowed by the Indian Constitution from the Constitution of the USA.

A). The Cabinet System

B). Fundamental Duties

C). Fundamental Rights

D). Bicameralism

**Q.9** The records of population density 2011 of India state that the density has increased from a figure of _____ to that of 382 per square kilometre, as per census 2011.

A). 334          B). 344

C). 314          D). 324

**Q.10** Which of the following Indian states/ UTs has the highest scheduled tribe population in comparison to its total population?

A). Delhi

B). Lakshadweep

C). Andaman and Nicobar

D). Mizoram

Q.11 Who was Gulbadan Begum, writer of Humayun Nama?
A). Mother of Humayun
B). Wife of Humayun
C). Sister of Humayun
D). Daughter of Humayun

Q.12 Raja Jaichand belongs to which dynasty?
A). Rathores     B). Chauhans
C). Solankies     D). Pramaras

Q.13 The Advocate General of a state is appointed under which Article of the Constitution of India?
A). Article 175     B). Article 160
C). Article 165     D). Article 170

Q.14 In which state/UT of India is the Divar Island situated?
A). Andaman and Nicobar Islands
B). Odisha
C). Lakshadweep
D). Goa

Q.15 According to National Family Health Survey 5, which of the following states has the highest percentage of employed women?
A). Meghalaya     B). Manipur
C). Andhra Pradesh   D). Telangana

Q.16 How many Lok Sabha Constituencies does Gujarat have in the seventeenth Lok Sabha?
A). 28     B). 26
C) 24     D). 30

Q.17 The United India Patriotic Association was founded by whom?
A). Siafudeen Kichlu
B). Sir Syed Ahmed Khan
C). Muhammad Ali
D). Maulana Shibli Numani

Q.18 Which of the following schemes of the Government of India deals with the promotion of organic farming?
A). Pradhan Mantri Fasal Bima Yojana
B). Pradhan Mantri Kisan Samman Nidhi Yojana
C). Paramparagat Krishi Vikas Yojana
D). Pradhan Mantri Krishi Sinchayee Yojana

Q.19 Where did Lord Wellesley establish Fort William College in 1800 AD?
A). Hyderabad     B). Mumbai
C). Kolkata     D). Chennai

Q.20 On which date was the first session of Indian Constitution Drafting Committee held?
A). 19 December 1946
B). 9 December 1945
C). 19 December 1945
D). 9 December 1946

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | C | 6 | A | 11 | C | 16 | B |
| 2 | B | 7 | A | 12 | A | 17 | B |
| 3 | C | 8 | C | 13 | C | 18 | C |
| 4 | C | 9 | D | 14 | D | 19 | C |
| 5 | B | 10 | B | 15 | A | 20 | D |

# KHAN GLOBAL STUDIES

## IB SA & MTS Exam Date : 24.03.2023 (Shift – 1)

### PART(A) : General Awareness

**Q.1** As per the World Bank data, what was the population of India at the end of 2021?
A). 1.49 billion       B). 1.69 billion
C). 1.39 billion       D). 1.59 billion

**Q.2** India's overall score on the NITI Aayog Sustainable Development Goals (SDG) India Index and Dashboard in 2020-21 is _____.
A). 60       B). 66
C). 65       D). 64

**Q.3** The disease 'Xerophthalmia' is caused in children due to deficiency of which vitamin in their diet?
A). Vitamin D       B). Vitamin C
C). Vitamin A       D). Vitamin B12

**Q.4** As per the India Discrimination Report 2022, the Labour Force Participation Rate (LFPR) of women in India is just _____ percent in 2021.
A). 20%       B). 25%
C). 15%       D). 10%

**Q.5** In terms of ecology, an organism that can tolerate a wide range of temperatures is referred to as _____.
A). niche       B). stenohaline
C). euryhaline       D). eurythermal

**Q.6** Who made history in the women's 100 m hurdles and became the first Indian woman to run a sub-13s time to win the gold medal at the Nation Games 2022?
A). Nandini Agasara
B). Jyothi Yarraji
C). Rosy Meena Paulraj
D). V Surekha

**Q.7** 'Baithakichi' is a type of which folk music form in India?
A). Pandavani       B). Lavani
C). Bihugeet       D). Bhatiali

**Q.8** The inception of Sanchi as a sacred centre was attributed to the Mauryan Emperor Ashoka in the _____.
A). 5th century BCE
B). 6th century BCE
C). 3rd century BCE
D). 4th century BCE

**Q.9** The folk-dance form 'Gaur Maria' is native of which state in India?
A). Gujarat       B). West Bengal
C). Goa       D). Chhattisgarh

**Q.10** Cadmium pollution causes a disease called 'Emphysema'. Which organ in the human body is/are primarily affected in 'Emphysema'?
A). Lungs       B). Kidneys
C). Liver       D). Heart

**Q.11** Which of the following is a non-essential amino acid as it can be made by the human body?
A). Proline       B). Methionine
C). Threonine       D). Valine

**Q.12** Which of the following is a weakest acid?
A). Hydrochloric acid
B). Perchloric acid
C). Ethanoic acid
D). Nitric acid

Q.13 Traditional folk musicians 'Manganiyar' and 'Langa' are related to which state of India from following?
A). Assam        B). Tamil Nadu
C). Odisha       D). Rajasthan

Q.14 International Agency for Research on Cancer (IARC) has classified radiofrequency electromagnetic fields as possibly carcinogenic to humans. In which category of carcinogens radio frequency of mobiles phones is kept?
A). Group 2B      B). Group 3
C). Group 2A      D). Group 4

Q.15 The poses in which classical dance form are called Karanas?
A). Bharatanatyam
B). Kathak
C). Kathakali
D). Odissi

Q.16 HCFC-141 b is one of the most powerful ozone-depleting chemicals after Chlorofluorocarbons (CFCs). What is the full form of HCFC?
A). Hydro ChloroFluoro Carbon
B). Hydro ChloroFluoro Carbene
C). HeptaChloroFluoro Carbon
D). Hydro CyanoFluoro Carbon

Q.17 Which of the following electromagnetic waves have the highest wavelength?
A). Microwaves
B). X-rays
C). Ultraviolet waves
D). Infrared waves

Q.18 Which state is the host for the 5th Khelo India Youth Games-2022?
A). Telangana     B). Madhya Pradesh
C). Haryana       D). Goa

Q.19 Which State/Team bagged the highest number of gold medals at the 36th National Games of India?
A). Karnataka
B). Tamil Nadu
C). Services team
D). Haryana

Q.20 NITI Aayog has constructed the SDG India Index spanning across 13 out of 17 SDGs as prescribed by UNO. Which of the following SDG goals of UNO is left out in the SDG India Index?
A). Goal 9
B). Goal 12
C). Goal 7
D). Goal 5

| Answer Key | | | | | | | |
|------|---|-----|---|------|---|------|---|
| 1. | C | 6. | B | 11. | A | 16. | A |
| 2. | B | 7. | B | 12. | C | 17. | A |
| 3. | C | 8. | C | 13. | D | 18. | B |
| 4. | B | 9. | D | 14. | C | 19. | C |
| 5. | D | 10 | A | 15 | A | 20. | B |

# PART(B): Quantitative Aptitude

Q.1 If the selling price of a toy is 3/5 of its cost price, then the loss percent is ____
A). 40%
B). 16%
C). 15%
D). 25%

Q.2 The ratio of the present ages of Rani and Rohan is 3: 4. After 3 years the ratio will become 4: 5. The ratio of their ages 24 years from now will be____
A). 11:12
B). 13:14
C). 10:11
D). 12:13

Q.3 The volumes of three containers are in the ratio of 4: 5: 6. They are full of mixtures of petrol to kerosene in the ratios of (3:1), (3:2) and (5: 1), respectively. The entire quantities of these mixtures from all these three containers are poured into a fourth container. The ratio of petrol to kerosene in the fourth container is _____

A) 11:4          B) 3:1
C) 12:5          D) 5:2

Q.4 What profit per cent is made by selling an article at a certain price if by selling at 4/5th of that price there is a loss of 12%?
A). 10%          B). 3%
C). 12%          D). 5%

Q.5 Divide 2310 people into three parties such that half of the number in the first party, one-third of the number in the second party and one-sixth of the number in the third party, are all equal.
A). 230, 820, 1260    B). 410, 640, 1260
C). 420, 630, 1260    D). 1200, 690, 420

Q.6 If V and S denote the volume and the total surface area of a cuboid (of sides a, b and c) respectively, then which of the following is true?
A). (1/V) = (2/S) (1/a - 1/b - 1/c)
B). (1/V) = (2 / S) (1/a + 1/b + 1/c)
C). (1/V) = (1/S) (2 + 1/b + 1/c)
D). 0 = (2/S) (1/a + 1/b + 1/c)

Q.7 Evaluate the given expression.
$$\left[\frac{0.36}{0.012 \text{ of } .04}\right] \times 0.5$$
A). 37.5          B). 0.18
C). 5.45          D). 15

Q.8 A book needs to be typed. A types it in 15 days. B types it in 12 days. C types in 20 days. D types in 8 days. If A and D work together as team VENUS, B and C work as team MERCURY, and A and C work as team MARS, which of these three teams will complete typing the book first?
A). MERCURY
B). MARS
C). All teams take the same time
D) VENUS

Q.9 If the HCF of $x$ and 117 is expressible in the form $2x - 117$, then which of the following options can be a value of $x$?
A). 75          B). 62
C) 65           D). 91

Q.10 A sum of money invested on compound interest for 2 years at 20% interest per annum would fetch ₹ 482 more as interest if the interest is compounded half-yearly than yearly. What is the sum invested?
A). ₹20,000          B). ₹24,100
C) ₹22,210           D). ₹19,120

Q.11 The weightage of 5 tests in a class and the marks scored by Ritu in those tests are as follows. What is the weighted average of the percentages she obtained in the five tests?

| Score/Max | Weightage |
| --- | --- |
| 12/20 | 15% |
| 16/20 | 12% |
| 40/50 | 30% |
| 80/100 | 10% |
| 14/20 | 33% |

A). 73.7%
B). 82.4%
C). 77.6%
D). 65.4%

Q.12 In a seminar, the number of participants in music, physical education and fine arts are 216, 96 and 168, respectively. Find the minimum number of rooms required if each room has the same member of participants and no room has participants from more than one stream seated in it.

A). 24        B). 12

C). 48        D). 20

Q.13 A and B together can knit a sweater in 255 hours, B and C can knit it together in 170 hours, while A and C can knit it together in 204 hours. How many hours will A, B and C together take to knit the sweater?

A). 153        B). 136

C). 119        D) 102

Q.14 Find the average of all the prime numbers that lie between 70 and 100.

A). 80        B). 86

C). 84        D). 82

Q.15 At what rate percent per annum will a sum of money become 5 times of itself in 8 years on simple interest?

A). 20%        B). 50%

C). 30%        D). 40%

Q.16 A boat covers a distance of 1 km against the current of the stream in half an hour and a distance of 3 km in the direction of the current in 30 minutes. How long will it take for the boat to go 8 km in still water?

A). 2 hours

B). 2 hours 15 minutes

C). 2 hours 25 minutes

D). 2 hours 40 minutes

Q.17 During Diwali sale, company A gives 'buy 4 sweaters and get 2 free' offer, company B gives 'buy 2 sweaters and get 3 free' offer, and company C gives a discount of 5%.

Which of the following is true?

1. A gives the best offer for the customer.

2. B gives the best offer for the customer.

3. Both A and B actually give the same offer.

4. C gives the best offer.

A). 4        B). 2

C). 1        D) 3

Q.18 Which is the smallest 5-digit number that is divisible by each of 54, 120 and 96?

A). 18280

B). 17280

C). 14260

D). 12960

Q.19 A big spherical besan ladoo of radius 810 cm is broken into smaller spherical laddoos of radius 90 cm. Find the ratio of the total surface area of all the small laddoos taken together to the surface area of the big laddoo.

A). 2:7        B). 1:9

C). 9:1        D). 8:3

Q.20 85 g of sugar solution has 30% sugar in it. The quantity of sugar that should be added to the solution to make the quantity of the sugar 65% in the solution is _____.

A). 110 g        B). 90 g

C). 100 g        D). 85 g

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | A | 6. | B | 11. | A | 16. | A |
| 2. | A | 7. | A | 12. | D | 17. | B |
| 3. | A | 8. | D | 13. | B | 18. | D |
| 4. | A | 9. | C | 14. | D | 19. | C |
| 5. | C | 10 | A | 15 | B | 20. | D |

## PART(C): Numerical, Logical, Analytical Ability & Reasoning

Q.1 Select the alphanumeric-cluster from among the given options that can replace the question mark (?) in the following series.

**4N, 5K, 12H, 39E, 160B, ?**

A). 292X      B). 805Y

C). 350Z      D). 805X

Q.2 In a certain code language, 'GLASS' is coded as 'T0AHH', and 'METAL' is coded as 'NVTZO'. How will 'PAPER' be coded in that language?

A). KYPUR      B). KZKVI

C). KZKVL      D). KZPVI

Q.3 In a certain code language, 'ACTIVE' is coded as 'CBSKUG', and 'MEMBER' is coded as 'LGLAGQ'. How will 'LEAGUE' be coded in that language?

A). KGCIWG      B). KGCFWG

C). KGYFWG      D). KGCFSG

Q.4 Arun walks 5 m south from his office, turns left and walks 3 m, again turns left and walks 13 m, then turns left and walks 3 m to reach the grocery shop. In which direction and how far is Arun from his office?

A). 8 m, North

B). 10 m, South-West

C). 14 m, North-East

D). 10 m, North-East

Q.5 Which two numbers should be interchanged to make the following equation correct?

**4 ×12 ÷ 9 + 7 - 10 = 0**

A). 9, 10      B). 9, 12

C). 4,7      D). 9,4

Q.6 'A & B' means 'A is the father of B
'A # B' means 'A is the son of B'
'A ^ B' means 'A is the brother of B's father'
'A @ B' means 'A is the wife of B'
'A % B' means 'A is the mother of B'
How is G related to K in the following expression?
**'G ^ H # I @ J & K'**
A). Son
B). Father's father
C). Father's brother
D). Brother's son

Q.7 Each of the letters in the word 'ADMIT' is arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter which is second from the left and the one which is second from the right?
A). 8      B). 10
C). 6      D). 9

Q.8 Four letter-clusters have been given, out of which three are alike in some manner, and one is different. Select the one that is different.
(**Note:** the letter-clusters are not to be treated as meaningful words)
A). MQOT      B). GKIM
C). BFDH      D). RVTX

Q.9 Seven members A, B, C, D, E, F and G of a certain department, have a function to attend on a different day of a week, starting from Monday to Sunday of the same week.
B has to attend the function on Tuesday. E has to attend the function immediately before A. G has to attend the function on Sunday. Only F has to attend the function between A and C. D has to attend the function on one of the days before B, A or C. Who has to attend the function on Thursday?
A). E      B). C
C). F      D). A

Q.10 K, R, I, H, G and F are six candidates who are selected for the programme of M.Ed of 'XYZ' university. Each has to join in different months of the same year viz. January, April, June, August, September and December. H has to join in April. Only K has to join after I. F has to join immediately after G. Who has to join in January?
A). K
B). R
C). I
D). G

Q.11 Select the number from among the given options that can replace the question mark (?) in the following series.
**20, 25, 24, 30, 32, 35, ?**
A). 44
B). 38
C). 45
D). 37

Q.12 Seven teachers A, B, C, D, E, Y and Z are sitting in a straight row, facing north. Only A sits between E and D. Only B sits between Z and Y. Only C sits to the right of E. A is to the immediate left of E. Z does not sit at any extreme ends of the row. Who sits to the immediate left of B?
A). Z
B). D
C). Y
D). E

Q.13 Refer to the given number, symbol series and answer the question that follows.
(Left) 3 * @ 5 %  3 + = 3 3 % 8 7 & 5 $ 7 5 & # * 8 2 @ 5 (Right)
How many such symbols are there (from left to right) which are immediately preceded by a number and also immediately followed by a number?
A). 7
B). 4
C). 6
D). 5

Q.14 Select the number from among the given options that can replace the question mark (?) in the following series.
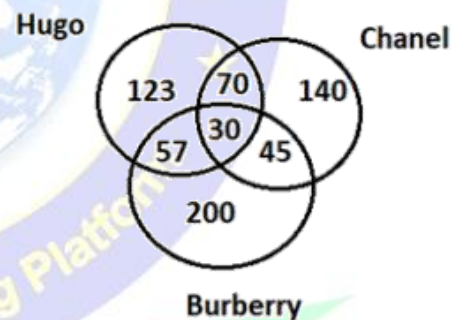**3, 16, 51, 104, ?**
A). 207
B). 209
C). 105
D). 104

Q.15 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
**EXAM : FWBL :: ROOM : QPPL :: TEST : ?**
A). SDRS
B). UDTS
C). SFRU
D). SFRS

Q.16 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of women using different brands of perfume.



How many such women are there who use both Chanel and Hugo brands only?
A) 100
B) 70
C) 30
D) 263

Q.17 Six lions N, O, P, Q, R and S are sitting in a straight row, facing north. Only Q sits to the left of R. N sits second to the left of O. S sits second to the right of P. O sits at an extreme end of the row. Which lion sits to the immediate right of N?
A). R
B). O
C). P
D). S

Q.18 Read the given statement and conclusions carefully. Decide which of the given conclusions is/are true based on the statement

**Statement:**

¥ < ∞ = μ ≤ © > Ω = ⌀ > β

**Conclusions:**

Ω > μ

∞ < ⌀

A). Only conclusions II is true

B). Both conclusions I and II are true

C). Neither conclusion I nor II is true

D). Only conclusion I is true

Q.19 If '−' means '÷', '×' means '+', '÷' means '×' and '+' means '−' what will be the value of the following expression?

[{(7 + 3) × (3 × 1)} − (1 ÷ 2)] ÷ 2

A). 1    B). 2

C). 4    D). 8

Q.20 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

EV – GT - LO

PK – RI - WD

A). BX-EV-JQ

B) BD-DF-IK

C). QJ-SH-WE

D). OL-QJ-VE

| Answer Key | | | | | | | |
|------|---|-----|---|-----|---|-----|---|
| 1. | B | 6. | C | 11. | A | 16. | B |
| 2. | D | 7. | A | 12. | C | 17. | D |
| 3. | B | 8. | A | 13. | D | 18. | C |
| 4. | A | 9. | D | 14. | C | 19. | D |
| 5. | B | 10 | B | 15 | D | 20. | D |

## PART(D): English Language

Q.1 Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'

It rained <u>strongly</u> during the weekend.

A). No substitution required

B). thickly

C). greatly

D). heavily

Q.2 Select the option that can substitute the underlined word in the given idiom. If no substitution is required, select 'No substitution required'.

A <u>person</u> of all trades is a master of none.

A). knave

B). No substitution required

C). jack

D). knight

Q.3 Select the most appropriate ANTONYM of the given word to fill in the blank.

Deliberately

He _____ broke the rules of the Ashram.

A). unknowingly  B). freely

C). intentionally  D). possibly

Q.4 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. My grandfather was a retired school teacher and an avid reader.

B. Every night, under the dark sky with the twinkling stars, he would tell me many stories.

C. He knew a vast number of Sanskrit texts by heart.

D. These were stories from the history of India, the epics and whatever interesting things he had read that day in the papers and magazines.

A). ACBD   B). ABDC

C). ABCD   D). ADCB

Q.5  Select the most appropriate option to fill in the blank.

I _____ your book by Saturday.

A). return
B). am returning
C). will return
D). have returned

Q.6  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. Her style was easy to read and very convincing.

B. Her stories usually dealt with complex psychological problems in the lives of ordinary people and were always very interesting.

C. Triveni was a very popular writer in the Kannada language.

D. She was a wonderful writer.

A). ADBC
B). DACB
C). CDAB
D). BDAC

Q.7  Select the most appropriate option to fill in the blanks.

When Davis reached his aunt's place, he was ____ tired and weak. His aunt told him to catch ____ sleep.

A). feel; any
B). felt; much
C). feels; many
D). feeling; some

Q.8  Select the most appropriate option that can substitute the underlined word in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Then the doctor took the driver's seat and they moved off along the white, turning road.

A). No substitution required
B). crooked
C). winding
D). twisting

Q.9  Select the INCORRECTLY spelt word.

A). Apology
B). Apathy
C). Apiary
D). Apostrofe

Q.10  Select the most appropriate article to fill in the blank.

Soon after the visitor left, _____ artist came to his studio.

A). the
B). a
C). No article required
D). an

Q.11  Select the most appropriate meaning of the given idiom.

Out and out

A). Surprising
B). Complete
C). Eventually
D). Easily

Q.12  Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

In February this year, Russia summoned war on Ukraine.

A). No substitution required
B). assigned
C). declared
D). charged

Q.13  Select the sentence with the correct punctuation and capitalisation.

A). Her mother scolded her for watching YouTube all the time.

C). Her mother scolded her for watching YouTube all the time.

B). Her mother, scolded her for watching, youtube all the time

D). Her mother scolded her for, watching YouTube all the time.

Q.14 Select the most appropriate option to fill in the blank.

Dr. Abdul Kalam, the former President of India, was also _____ great scientist.

A). a                    B). No article required

C). an                   D). the

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

My watch has begun _____ a few minutes every day.

A). losing               B). to be lost

C). lost                 D). lose

Q.16 Select the INCORRECTLY spelt word.

A). Towal                B). Loyal

C). Equal                D). Sandal

Q.17 Select the most appropriate meaning of the given word.

Anticipate

A). Expect               B). Doubt

C). Hesitate             D). Question

Q.18 Select the most appropriate option to fill in the blank.

In today's world, we are always bound _____ time.

A). by                   B). from

C). with                 D). through

Q.19 Select the correct punctuation mark to fill in the blanks.

Oh _____ I didn't realise that.

A). colon (:)

B). full stop (.)

C). exclamation mark (!)

D). semicolon (;)

Q.20 Select the most appropriate option to fill in the blank.

These days, we _____ for a new house.

A). had looked           B). will look

C). look                 D). are looking

| Answer Key | | | | | | | |
|------|---|-----|---|-----|---|-----|---|
| 1. | D | 6. | C | 11. | B | 16. | A |
| 2. | C | 7. | D | 12. | C | 17. | A |
| 3. | A | 8. | C | 13. | A | 18. | A |
| 4. | A | 9. | D | 14. | A | 19. | C |
| 5. | C | 10 | A | 15 | A | 20. | D |

## PART(E): General Studies

Q.1 In which year was the All India Kisan Sabha, a peasant organisation, founded?

A). 1940                 B). 1938

C). 1936                 D). 1942

Q.2 In the Zabti system during the Mughal Empire, the land which had been continuously cultivated was named _____.

A). Parauti              B). Chachar

C). Banjar               D). Polaj

Q.3 Which of the following is a right bank tributary of the Indus?

A). Zaskar               B). Beas

C). Hunza                D). Jhelum

Q.4 Which of the following dynasties could continue to maintain their hold over Kannauj till the end in the Tripartite Struggle?

A). Pala                 B). Chola

C). Rashtrakuta          D). Gurjara-Pratihara

Q.5 In October 2022, IMF cut India's Gross Domestic Product Growth projection for 2022-23 to _____ from the earlier 7.4%.

A). 6.8%                 B). 4.5%

C). 3.1%                 D). 8.2%

Q.6 Which district of Arunachal Pradesh is the least populated district of India as per Census 2011?
A). Itanagar
B). Changlang
C). Dibang Valley
D). Anjaw

Q.7 Article 149 deals with which of the following?
A). The form of accounts of the Union and of the States
B). CAG appointment, oath and conditions of service
C). Duties and Powers of the CAG
D). Audit Reports

Q.8 What is the sex ratio of Puducherry as per the 2011 Census?
A). 987
B). 967
C). 1037
D). 1027

Q.9 Which Amendment of the Indian Constitution is called 'Mini Constitution' because of the large number of revisions it made to the Constitution of India?
A). 52
B). 61
C). 42
D). 44

Q.10 In which year did Jayaprakash Narayan escape from Hazaribagh Prison and joined the Quit India Movement?
A). 1942
B). 1940
C). 1943
D). 1941

Q.11 Article 21 of the Indian Constitution deals with:
A). Child Labour
B). Right to Vote
C). Protection of Life and Personal Liberty
D). Widow Marriage

Q.12 Who is responsible for regulating the debates and proceedings of the Vidhan Sabha?
A). Chief minister
B). Governor
C). Speaker
D). Deputy speaker

Q.13 In a production function, which of the following is NOT a factor of production?
A). Labour
B). Output
C). Capital
D). Land

Q.14 Goods and Services Tax (GST) is a/an:
A). direct tax
B). indirect tax
C). wealth tax
D). capital gains tax

Q.15 Which of the following Chapters of the Indian Constitution talks about the Constitution of Parliament?
A). Chapter III
B). Chapter I
C). Chapter II
D). Chapter IV

Q.16 The Vidhan Sabha can ask the President to create or dissolve the Vidhan Parishad if it has majority of _____.
A). 1/3
B). 1/4
C). 1/2
D). 2/3

Q.17 Which of the following businesses/banking organisations was established by the Indian Business Community in 1927?
A). Punjab National Bank
B). Allahabad Bank
C). CIBS
D). FICCI

Q.18 What is the literacy rate of Lakshadweep as per the 2011 Census?
A). 91.85%
B). 95.26%
C). 89.84%
D). 85.13%

Q.19 In which language are the proceedings of the Supreme Court conducted?
A). Regional Language of States
B). Both English and Hindi
C). Hindi
D). English

Q.20 Which of the following is a thermal power station of Uttar Pradesh?
A). Sasan Ultra Mega Power Plant
B). Tiroda Thermal Power Plant
C). Rihand Thermal Power Station
D). Talcher Super Thermal Power Station

| Answer Key | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1. | C | 6. | C | 11. | C | 16. | D |
| 2. | D | 7. | C | 12. | C | 17. | D |
| 3. | C | 8. | C | 13. | B | 18. | A |
| 4. | D | 9. | C | 14. | B | 19. | D |
| 5. | A | 10 | A | 15 | C | 20. | C |