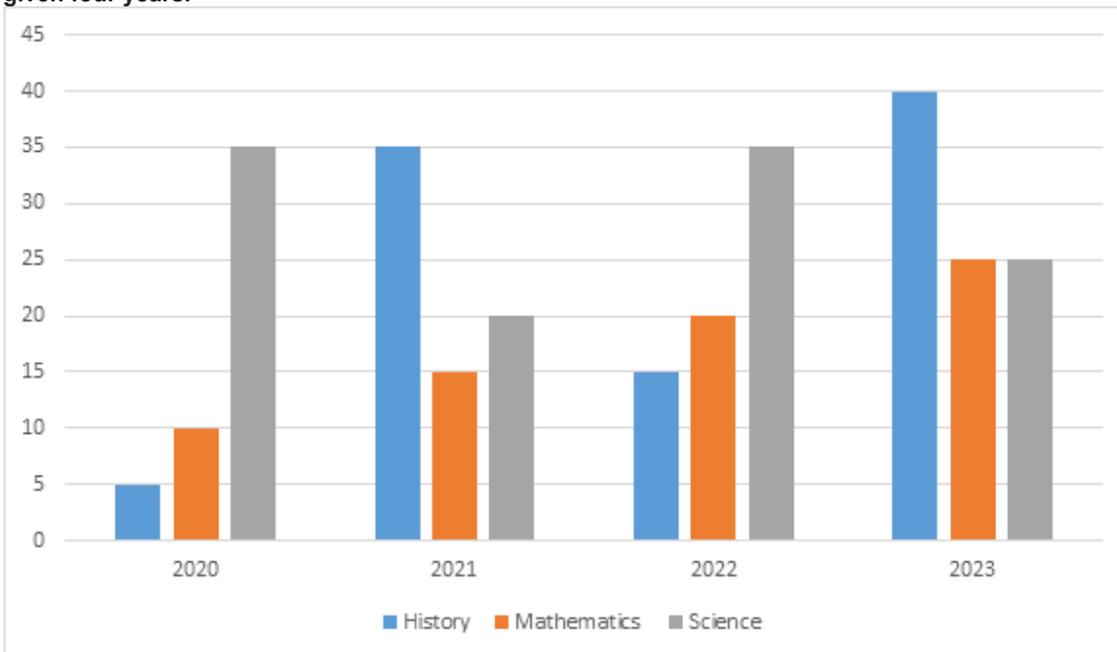


Multi Tasking Non Technical Staff and Havaldar CBIC and CBN Examination 2024

Exam Date	30/09/2024
Exam Time	12:30 PM - 2:30 PM
Subject	MTS Non Tech Havaldar CBIC and CBN Examination 2024

Section : Numerical and Mathematical Ability

Q.1 The graph given below represents the number of students (in thousands), who opted for the given three subjects during the given four years.



Out of the total number of students who opted for the given three subjects in the year 2022, 42% were girls. How many boys chose the given three subjects?

- Ans A). 31,500 B). 38,900 C). 40,600 D). 29,300

Correct Answer: C

Q.2 A policeman follows a thief, who is 150 metres ahead of him., and they run at the speed of 6 km/h and 5 km/h, respectively. What distance does the policeman cover to catch up with the thief?

- Ans A). 880 metres B). 870 metres C). 890 metres D). 900 metres

Correct Answer: D

Q.3 Rohan deposited ₹500 for 2 years, ₹650 for 4 years and ₹1,300 for 6 years, at the same rate of interest. He received the total simple interest of ₹1,140. What is the rate of interest per annum?

- Ans A). 10% B). 9.5% C). 10.5% D). 11%

Correct Answer: A

Q.4 A right circular cone of height h and radius R is cut by a plane parallel to the base at a distance $h/4$ from the base. The ratio of the curved surface areas of the resulting cone to the frustum is:

- Ans A). 7 : 16 B). 16 : 9 C). 16 : 7 D). 9 : 7

Correct Answer: D

Q.5 A shot-put made of iron with a diameter of 12 cm is melted into a solid cylinder with a height of 2 cm. What is the diameter of the cylinder made?

- Ans A). 12 cm B). 18 cm C). 24 cm D). 21 cm

Correct Answer: C

Q.6	An oil dealer had three types of oil. 403 litres of the first kind, 434 litres of the second kind and 465 litres of the third kind. Find the maximum volume of oil, filled in each barrel, if equal number of barrels are filled.				
Ans A).	52 litres	B). 48 litres	C). 31 litres	D). 41 litres	Correct Answer: C
Q.7	In a mock test conducted by a coaching institute, 20 students average scored 75% marks and the remaining 15 students average scored 54% marks. Find the average score.				
Ans A).	66%	B). 67%	C). 63%	D). 62%	Correct Answer: A
Q.8	The mean (rounded off to two decimal place) of the first 6 odd prime numbers is:				
Ans A).	9.33	B). 8.61	C). 7.93	D). 10.71	Correct Answer: A
Q.9	In an election contested by two candidates, one candidate got 25% of the total votes and still lost by 20,000 votes. Find the total number of votes cast? (all votes are valid)				
Ans A).	35000	B). 40000	C). 25000	D). 55000	Correct Answer: B
Q.10	The marked price of a scooter is ₹1,80,000. The shopkeeper gave a scheme discount of 4% on ₹1,20,000 and 2.5% on the remaining amount. The selling price (in ₹) of the scooter is:				
Ans A).	1,37,700	B). 1,73,070	C). 1,73,700	D). 1,77,300	Correct Answer: C
Q.11	The average of the sales of an electronics shop in the years 1991, 1992, 1993 and 1994 is 2000, and that for the years 1992, 1993, 1994 and 1995 is 2200. If the sales in 1995 are 1800, find the sales in 1991.				
Ans A).	800	B). 1200	C). 1000	D). 500	Correct Answer: C
Q.12	A trader marks his goods at 20% higher than the cost price. Further, he uses a weighing balance which shows 1200 grams for a kilogram. What is his profit percentage?				
Ans A).	66%	B). 50%	C). 44%	D). 55%	Correct Answer: C
Q.13	A dishonest shopkeeper claims to sell rice at the cost price of ₹95 per kg, but the weight he uses has 1 kg written on it, while it actually weighs 950 gm. The profit he thus earns on selling rice having an actual weight of 95 kg rice is:				
Ans A).	₹500	B). ₹375	C). ₹475	D). ₹275	Correct Answer: C
Q.14	In the first 5 overs of a T-20 international cricket match, the run rate was only 5.6. What should be the run rate (approximately) in the remaining 15 overs to reach a target of 185 runs?				
Ans A).	10.46	B). 10.25	C). 9.55	D). 11.15	Correct Answer: A
Q.15	Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 5% per year rate of interest for 5 years.				
Ans A).	835	B). 875	C). 815	D). 915	Correct Answer: B
Q.16	If Anil takes 5 days to complete a task when he works for 8 hours a day, how many days will he take to complete the task if he works 6 hours a day?				
Ans A).	$6\frac{2}{3}$ days	B). $7\frac{1}{2}$ days	C). $7\frac{2}{3}$ days	D). 6 days	Correct Answer: A
Q.17	Find the area of a square whose diagonal is of 14 cm length.				
Ans A).	95 cm ²	B). 98 cm ²	C). 94 cm ²	D). 96 cm ²	Correct Answer: B
Q.18	Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 6% per year rate of interest for 3 years.				
Ans A).	410	B). 450	C). 390	D). 490	Correct Answer: B

Q.19 The given table shows the number of the suitcases sold by different showrooms from 2018 to 2022.

Year/showrooms	A	B	C	D	E
2018	219	225	227	228	240
2019	203	212	215	204	202
2020	190	194	196	195	198
2021	220	224	202	225	231
2022	230	212	208	210	220

The suitcases sold by the showroom D in 2019 is what percentage (rounded off to two places of decimals) less than that sold by showroom B in 2021?

Ans A). 8.02% B). 7.93% C). 9.93% D). 8.93% **Correct Answer: D**

Q.20 A policeman chases a thief. The speed of the policeman and thief are 10 kmph and 8 kmph, respectively. If the policeman started 15 minutes late, find the time taken by the policeman to catch the thief.

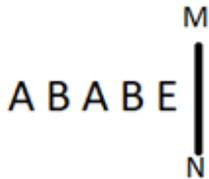
Ans A). 15 minutes B). 45 minutes C). 30 minutes D). 60 minutes **Correct Answer: D**

Section : Reasoning Ability and Problem Solving

Q.1 In a certain code language, 'DONER' is coded as '52369' and 'DROVE' is coded as '32957'. What is the code for 'N' in the given code language?

Ans A). 7 B). 9 C). 6 D). 5 **Correct Answer: C**

Q.2 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans A). **A B A B E** B). **E B A B A** C). **E B A B E** D). **A B A B A** **Correct Answer: B**

Q.3 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:

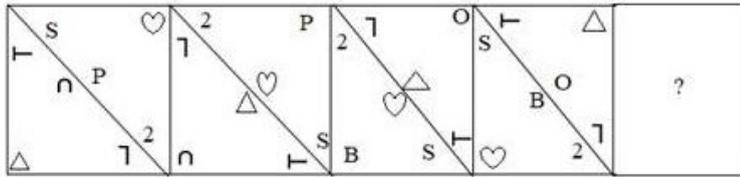
- Some hooks are rags.
- All rags are bottles.

Conclusions:

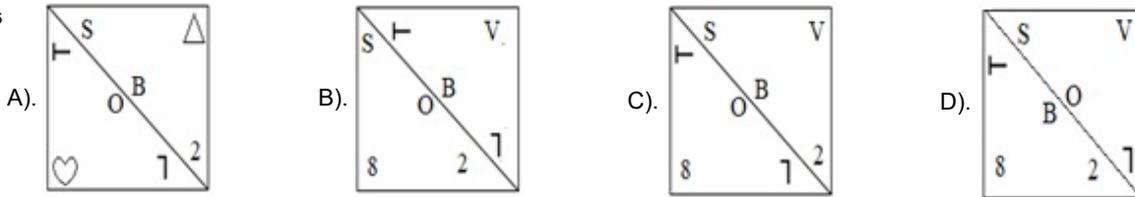
- (I) Some bottles are hooks.
- (II) All bottles are rags.

Ans A). Only conclusion (II) follows B). Only conclusion (I) follows C). Both conclusions (I) and (II) follow
D). Neither conclusion (I) nor (II) follows **Correct Answer: B**

Q.4 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



Correct Answer: C

Q.5 12 is related to 59 following a certain logic. Following the same logic, 17 is related to 79. To which of the following is 24 related, following the same logic? (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

Ans A). 101 B). 117 C). 107 D). 96

Correct Answer: C

Q.6 What should come in place of the question mark (?) in the given series based on the English alphabetical order? EGC, IFG, MEK, QDO, ?

Ans A). WSU B). VWS C). UCS D). SWU

Correct Answer: C

Q.7 P, Q, R, S, T, U, V and W are sitting around a circular table facing the centre (but not necessarily in the same order). P is sitting to the immediate right of V and third to the left of U. S is sitting fourth to the right of Q, who is not an immediate neighbour of P and T. Q is sitting to the second right of U. R is sitting to the immediate right of Q and second to the left of P. How many people are sitting between R and T when counted from the left of T?

Ans A). Three B). Five C). Two D). Four

Correct Answer: A

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

$$27 - 45 \times 15 \div 8 + 3 = 6$$

Ans A). - and × B). + and × C). ÷ and × D). - and +

Correct Answer: C

Q.9 In a certain code language, 'FAST' is coded as '6842' and 'TILE' is coded as '5761'. What is the code for 'T' in the given code language?

Ans A). 2 B). 5 C). 1 D). 6

Correct Answer: D

Q.10 Rajan, Pragyan, Kamal, Sachin, Ashok, Narendra, and Laksh are sitting around a circular table, facing the centre (but not necessarily in the same order).

Rajan sits 3rd to the right of Narendra. Kamal sits 2nd to the right of Rajan. Ashok is an immediate neighbour of Narendra. Pragyan sits to the immediate right of Sachin.

Who is sitting 3rd to the left of Narendra?

Ans A). Sachin B). Laksh C). Pragyan D). Kamal

Correct Answer: B

Q.11 Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(20, 76, 91)
(87, 41, 123)

Ans A). (57, 18, 100) B). (84, 47, 126) C). (40, 80, 15) D). (47, 19, 51)

Correct Answer: B

Q.12 GMIE is related to HNJF in a certain way based on the English alphabetical order. In the same way, KQMI is related to LRNJ. To which of the following is NTPL related, following the same logic?

Ans A). UOQM B). UOMQ C). OUQM D). OUMQ

Correct Answer: C

Q.13 What should come in place of the question mark (?) in the given series?

34 51 85 102 136 ?

- Ans A). 153 B). 146 C). 157 D). 142

Correct Answer: A

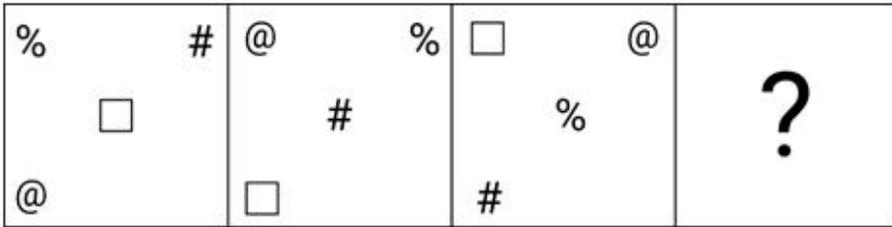
Q.14 What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$140 \times 2 - 4 \div 56 + 82 = ?$

- Ans A). 262 B). 268 C). 241 D). 212

Correct Answer: D

Q.15 Identify the figure given in the options which when put in place of (?) will logically complete the series.



- Ans
- A).
- B).
- C).
- D).

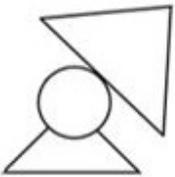
Correct Answer: A

Q.16 In a certain code language, 'checked his mirror' is written as 'aw ar ae' and 'book inevitably mirror' is coded as 'al aw ao'. How is 'mirror' coded in that language?

- Ans A). al B). aw C). ae D). ao

Correct Answer: B

Q.17 Select the option in which the given figure is embedded (rotation is NOT allowed).



- Ans
- A).
- B).
- C).
- D).

Correct Answer: D

Q.18 TAHO is related to XELS in a certain way based on the English alphabetical order. In the same way, HOVC is related to LSZG. To which of the following is NUBI related, following the same logic?

- Ans A). RYFM B). FYKM C). RYGM D). RYKM

Correct Answer: A

Q.19 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 conclusion(s) logically follow(s) from the statement(s).

Statements:

Some metals are iron.

Some iron are steel.

Conclusions:

(I) Some metals are steel.

(II) All steel are iron.

Ans A). Only conclusion (II) follows.

B). Only conclusion (I) follows.

C). Neither conclusion (I) nor (II) follows.

D). Both conclusions (I) and (II) follow.

Correct Answer: C

Q.20 In a certain code language, 'will make you' is written as 'ft fy fd' and 'you see what' is written as 'fi fo ft'. How will 'you' be written in the given language?

Ans A). fo

B). fy

C). fd

D). ft

Correct Answer: D

Section : **General Awareness**

Q.1 Who was the court poet of king Harshavardhana?

Ans A). Vatsbhathi

B). Kalidas

C). Ravikirti

D). Banabhatta

Correct Answer: D

Q.2 As per Article 181, the _____ can not preside while a resolution for his removal from office is under consideration in State Legislative Assembly.

Ans A). Advocate General

B). Deputy Chairman

C). Speaker

D). Chairman

Correct Answer: C

Q.3 In 1928, who among the following wrote the Congress Party's Nehru Report, a future constitution for independent India, based on the granting of dominion status?

Ans A). Motilal Nehru

B). Jawaharlal Nehru

C). Subhash Chandra Bose

D). Mahatma Gandhi

Correct Answer: A

Q.4 The Patkai hills are part of the _____ mountains.

Ans A). Western Ghats

B). Eastern Ghats

C). Purvachal

D). Karakoram

Correct Answer: C

Q.5 In which of the following events did India get its first individual Olympic gold medal?

Ans A). Wrestling

B). Boxing

C). Weightlifting

D). Shooting

Correct Answer: D

Q.6 The term 'foot fault' is associated with which of the following games?

Ans A). Hockey

B). Tennis

C). Archery

D). Basketball

Correct Answer: B

Q.7 Calculate the revenue receipts from the following information.

Revenue deficit= 2.80% of GDP Revenue expenditure= 10.80% of GDP

Ans A). 12.80

B). 8.00

C). 13.60

D). 2.70

Correct Answer: B

Q.8 When a large amount of carbon dioxide dissolves in a water body, the water becomes acidic because of the formation of which of the following acids?

Ans A). Carboxylic acid

B). Carbamic acid

C). Carbolic acid

D). Carbonic acid

Correct Answer: D

Q.9 Which programme, that was introduced in the year 2000-2001, aims to offer homes, drinking water, primary education and basic healthcare in rural areas?

Ans A). Pradhan Mantri Kisan Samman Nidhi

B). Pradhan Mantri Gramodaya Yojana

C). The Pradhan Mantri Gram Sadak Yojana

D). Pradhan Mantri Vaya Vandana Yojana

Correct Answer: B

Q.10 Which of the following institutes/projects is declared as a masterpiece of oral and intangible heritage of humanity by UNESCO in May 2001?

Ans A). Jawaharlal Nehru Manipur Dance Academy

B). National Institute of Kathak Dance

C). National Project to support Kuttiyattam

D). Music Academy Madras

Correct Answer: C

Q.11	Select the INCORRECT pair of molecule/formula units and their molar mass from the following.				
Ans A).	HNO ₃ - 62	B). CH ₄ - 16	C). NaCl - 58.5	D). HCl - 36.5	Correct Answer: A
Q.12	In animal cells, the breakdown of very long chain fatty acids through β-oxidation is conducted by which of the following organelles?				
Ans A).	Ribosome	B). Peroxisome	C). Mitochondria	D). Golgi apparatus	Correct Answer: B
Q.13	How many cities have been selected to be developed as sustainable and responsible destinations as per the Swadesh Darshan 2.0 scheme launched by the Union Ministry of Tourism in January 2023?				
Ans A).	67	B). 21	C). 45	D). 30	Correct Answer: D
Q.14	Which of the following architectural elements is excluded from the construction sites of the Indus Valley Civilisation?				
Ans A).	Iron Slabs	B). Sun Dried Bricks	C). Baked Bricks	D). Mortar of Gypsum	Correct Answer: A
Q.15	In the 1991 Census, which state was the highest in rank in terms of literacy rate and held higher than the national average of literacy rate?				
Ans A).	West Bengal	B). Karnataka	C). Tamil Nadu	D). Kerala	Correct Answer: D
Q.16	Which organelle contains ribosomal RNA and is involved in the production of ribosomes?				
Ans A).	Endoplasmic reticulum	B). Nucleus	C). Nucleolus	D). Golgi apparatus	Correct Answer: C
Q.17	The autobiography 'Wings of Fire' chronicles the life of which notable Indian personality?				
Ans A).	APJ Abdul Kalam	B). Kiran Bedi	C). Arundhati Roy	D). Ratan Tata	Correct Answer: A
Q.18	Which of the following revolutionaries, who was arrested in Lahore conspiracy case by the British Government of India, was martyred in the hunger strike of 63 days in jail?				
Ans A).	Ram Prasad Bismil	B). Jatindra Nath Das	C). Prafulla Chaki	D). Rash Behari Bose	Correct Answer: B
Q.19	Which of the following correctly describes the nature of the Indian Constitution?				
Ans A).	Very rigid and difficult to amend	B). Flexible	C). Rigid	D). Neither rigid nor flexible	Correct Answer: D
Q.20	The 'Bathukamma' festival is associated with which state?				
Ans A).	Telangana	B). Sikkim	C). Punjab	D). Tripura	Correct Answer: A
Q.21	Raga Deepak has been associated with which famous musician?				
Ans A).	Ali Khan Karori	B). Tansen	C). Lal Kalawant	D). Khusrau	Correct Answer: B
Q.22	In September 2023, after the retirement of Incumbent Sanjay Kumar Mishra, who was appointed as In-charge Director of ED?				
Ans A).	Tushar Mehta	B). Rahul Navin	C). Samant Goel	D). TV Somanathan	Correct Answer: B
Q.23	Balban's rule as an absolute despot led to which of the following events?				
Ans A).	Respected common man	B). Granting Jagirs to Nobles	C). Appointed Hindus in administration	D). Destruction of the Forts	Correct Answer: D
Q.24	Which of the following dams is a part of the Damodar Valley Corporation?				
Ans A).	Maithon	B). Rihand	C). Koyna	D). Salal	Correct Answer: A
Q.25	Which of the following dances is traditionally performed by the males of three adjacent states - Jharkhand, Odisha and West Bengal?				
Ans A).	Odissi	B). Sattriya	C). Kuchipudi	D). Chhau	Correct Answer: D

Q.1 In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.
All in all, he had the more splendid collection of antique paintings ever.

Ans A). most splendid B). more splendor C). splendid D). splendor

Correct Answer: A

Q.2 Select the most appropriate ANTONYM of the underlined word in the given sentence.

The company plans to expand its operations into global markets soon.

Ans A). Eliminate B). Spread C). Restrict D). Diversify

Correct Answer: C

Q.3 Select the most appropriate meaning of the idiom from the options given below.
To show the white feather

Ans A). To act cowardly B). To show anger C). To maintain peace D). To act bravely

Correct Answer: A

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

My brother trains young girls at the football academy, whereas I gets a handsome salary to teach mathematics at the same place.

Ans A). at the football academy, whereas B). My brother trains young girls C). to teach mathematics at the same place
D). I gets a handsome salary

Correct Answer: D

Q.5 Select the most appropriate synonym of the given word.

Reverent

Ans A). Rushed B). Important C). Related D). Respectful

Correct Answer: D

Q.6 Select the grammatically correct sentence from the given options.

Ans A). An unexpected power failure completely foiled the plan of the team. B). An unexpected power failure completely foiled a plan of a team.
C). A unexpected power failure completely foiled the plan of a team. D). An unexpected power failure completely foiled an plan of the team.

Correct Answer: A

Q.7 In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative.
The bread was drier and stale.

Ans A). dry B). much drier C). driest D). more drier

Correct Answer: A

Q.8 Select the correct spelling of the underlined word in the given sentence.

After their disagreement, they decided to separate their belongings and part ways.

Ans A). sepearate B). seprete C). separate D). seprate

Correct Answer: C

Q.9 One of the four underlined words in the given sentence is incorrectly spelt. Select the INCORRECTLY spelt word.

Let us appreciate, support and contribute our might to the promotional efforts of the comunity.

Ans A). appreciate B). promotional C). contribute D). comunity

Correct Answer: D

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

The scientist conducted a series of experiments to _____ his hypothesis.

Ans A). variation B). variable C). vague D). verify

Correct Answer: D

Q.11 Select the option that has an error in the use of phrasal verb.

Ans A). Why does she break out with all her near and dear ones? B). To earn a significant profit, you are advised to deal in electronic items.
C). Clean up the mess in the kitchen. It is unhygienic. D). We look forward to seeing you during the event.

Correct Answer: A

Q.12 In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in the blanks.

Johannes Gutenberg invented the first printing press that could print thousands of _____ a day. This made books cheaper and information _____ widely available.

Ans A). pages; more B). sheet; much C). leaf; many D). sides; most

Correct Answer: A

Q.13 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Although she is usually / rude with everyone, / she behaved nice / with all of us today.

Ans A). with all of us today B). Although she is usually C). she behaved nice D). rude with everyone

Correct Answer: C

Q.14 Select the most appropriate meaning of the underlined word.

I cannot see without my glasses.

Ans A). A device used to correct the defects of vision B). A container C). A fragile object D). An unbreakable object

Correct Answer: A

Q.15 Select the most appropriate ANTONYM that can substitute the underlined segment in the given sentence.

They all felt that the movie was truly captivating and unforgettable.

Ans A). tantalising B). relatable C). repugnant D). charismatic

Correct Answer: C

Q.16 Rectify the sentence by selecting the correct spelling from the options.

All the political parties of India appaer lost in the physical exercise of fighting elections.

Ans A). Apeear B). Aappear C). Apearr D). Appear

Correct Answer: D

Q.17 Select the most appropriate option that can substitute the underlined segment in the given sentence.

I long from travel outside the country, dreaming of adventures among the towering Alps and basking in the turquoise waters of the Caribbean.

Ans A). long at travel B). long to travel C). long for travelling D). long for travelled

Correct Answer: B

Q.18 Select the most appropriate ANTONYM of the given word.

Triumph

Ans A). Failure B). Lapse C). Attentiveness D). Delay

Correct Answer: A

Q.19 Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

She is someone who always discourages our enthusiasm; therefore, we have decided to keep our distance from her.

Ans A). a nine days' wonder B). a fish out of water C). a wet blanket D). a cash cow

Correct Answer: C

Q.20 Select the option that can be used as a one-word substitute for the given group of words.

A building where animals are butchered

Ans A). Decanter B). Abattoir C). Burrow D). Cemetery

Correct Answer: B

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.

Goddess Shailputri is the first form of Goddess Durga, who is worshipped ____ (1) ____ Navaratri. In this form, she is worshipped as the daughter of ____ (2) ____ Himalayas. She is the goddess ____ (3) ____ nature and is adorned with flowers. She ____ (4) ____ a bull and holds a trident in one hand and a lotus flower in another. During Navaratri, nine different forms of Durga are worshipped. Durga is a ____ (5) ____, ____ (6) ____, ____ (7) ____ deity who is also known as Adishakti—the energy that manifested to create the universe.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank number 1.

Ans A). by B). to C). among D). during

Correct Answer: D

