

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

Exam Date	30/09/2024
Exam Time	9:00 AM - 11:00 AM
Subject	MTS Non Tech Havaldar CBIC and CBN Examination 2024

### Section : Numerical and Mathematical Ability

**Q.1** The average monthly expenditure of a family was ₹8,600 during the first three months, ₹9,750 during the next four months and ₹9,920 during the last five months of a year. If the total savings during the year was ₹65,300, the average monthly income (in ₹) of the family was:

Ans A). 14,975                      B). 15,794                      C). 15,479                      D). 14,597

Correct Answer: A

**Q.2** A thief saw a policeman, and he started running at a speed of 18 m/s. After 12 seconds, the policeman starts running behind the thief at a certain speed. If the policeman covered 864 meters distance to reach the thief, then the speed (in m/s) of the policeman is:

Ans A). 28                      B). 15                      C). 30                      D). 24

Correct Answer: D

**Q.3** The ratio of the present age of A and B is 3 : 1. Five years ago, the ratio of their ages was 5 : 1. The age of A (in years) after eight years will be:

Ans A). 30                      B). 22                      C). 38                      D). 40

Correct Answer: C

**Q.4** Two trains, 148 m and 152 m long, are running towards each other on parallel lines at 62 km/h and 46km/h, respectively. In what time will they be clear of each other from the moment they meet?

Ans A). 5 sec                      B). 20 sec                      C). 10 sec                      D). 15 sec

Correct Answer: C

**Q.5** The area of an equilateral triangle is  $\frac{\sqrt{5043}}{4}$  sq. cm. The side of the equilateral triangle is:

Ans A).  $\sqrt{23}$  cm                      B).  $\sqrt{29}$  cm                      C).  $\sqrt{47}$  cm                      D).  $\sqrt{41}$  cm

Correct Answer: D

**Q.6** The average monthly income of A and B is ₹3,590. The average monthly income of B and C is ₹4,250. The average monthly income of A and C is ₹6,500. What is the monthly income of C?

Ans A). ₹7,545                      B). ₹6,984                      C). ₹8,190                      D). ₹7,160

Correct Answer: D

**Q.7** In a 100-marks test, the average of marks scored by 50 students was found to be 65. Later on, it was discovered that a score of 88 was misread as 68. Find the correct average.

Ans A). 65.60                      B). 65.50                      C). 65.70                      D). 65.40

Correct Answer: D

**Q.8** A man sells an article at a certain price and suffers a loss of 20%. If he sells the article at ₹100 more, he gets a profit of 30%. Find the cost price of the article (in ₹).

Ans A). 250                      B). 300                      C). 400                      D). 200

Correct Answer: D

**Q.9** A sum invested at 5% simple interest per annum grows to ₹806 in 6 years. If the amount remains the same, how much will it grow at a 12% simple interest rate in 5 years?

Ans A). ₹992                      B). ₹985                      C). ₹1,000                      D). ₹1,120

Correct Answer: A

**Q.10** Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 7% per year rate of interest for 6 years.

Ans A). 1430                      B). 1470                      C). 1510                      D). 1410

Correct Answer: B

Q.11 The area of a regular hexagon is  $2048\sqrt{3}$  cm<sup>2</sup>. What is the length (in cm) of each side of the hexagon?

- Ans A).  $32\sqrt{3}$                       B).  $\frac{64\sqrt{3}}{3}$                       C).  $\frac{32\sqrt{3}}{3}$                       D).  $64\sqrt{3}$                       Correct Answer: B

Q.12 Rice worth ₹43/kg and ₹67/kg are mixed with a third variety in the ratio 2 : 1 : 5. If the mixture is worth ₹96/kg, the price (in ₹) of the third variety of rice per kg will be:

- Ans A). 131                      B). 159                      C). 123                      D). 142                      Correct Answer: C

Q.13 Three numbers are in the ratio of 6:7:3 and their LCM is 3654. Their HCF is:

- Ans A). 28                      B). 87                      C). 29                      D). 27                      Correct Answer: B

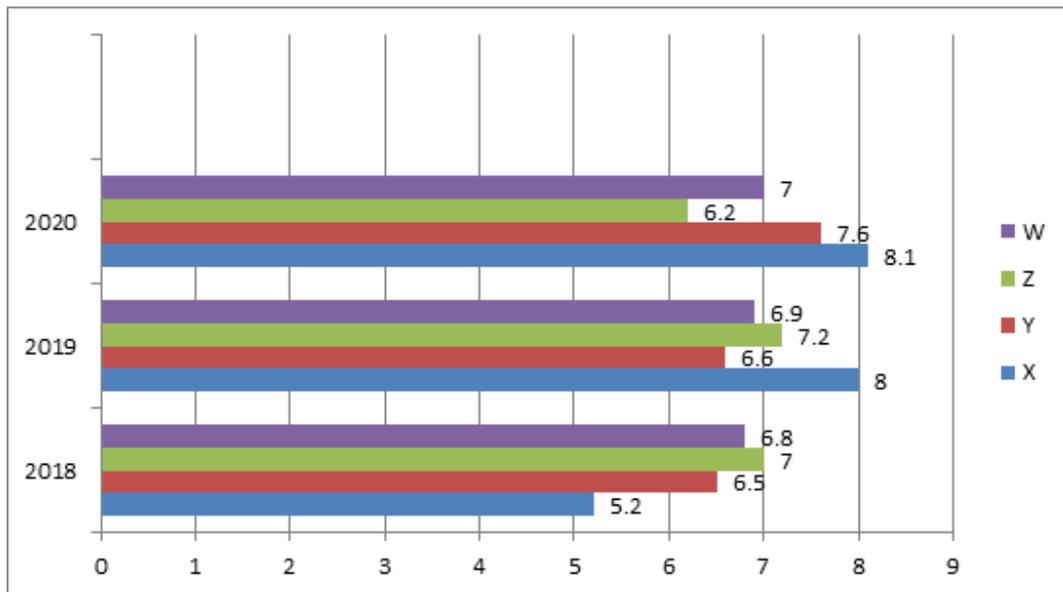
Q.14 Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 7% per year rate of interest for 5 years.

- Ans A). 1050                      B). 990                      C). 1010                      D). 1090                      Correct Answer: A

Q.15 20 identical solid hemispheres of radius 3 cm are melted to form a big solid hemisphere. What is the radius (in cm) of the biggest hemisphere formed, if 20% of the solid is wasted during the process?

- Ans A).  $3\sqrt{2}$                       B). 6                      C).  $6\sqrt[3]{2}$                       D). 3                      Correct Answer: C

Q.16 The following bar graph shows the production of cement (in 10,000 tones) by 4 companies X, Y, Z and W during the period 2018 - 2020. Study the bar graph carefully and answer the question.  
Which company has the maximum average production over the course of 3 years?



- Ans A). Y                      B). X                      C). W                      D). Z                      Correct Answer: B

Q.17 Riya offers 12% discount on all her goods and offers an additional discount of 6% to those customers who pay in cash. How much will a customer have to pay for a fan marked for ₹2,400 if he pays in cash?

- Ans A). ₹1,985.28                      B). ₹1,900                      C). ₹2,300.50                      D). ₹2,122.50                      Correct Answer: A

Q.18 In a college, 20% of the number of boys are equal to the three-fourth of the number of girls. What is the ratio of boys and girls in that college ?

- Ans A). 15 : 4                      B). 13 : 4                      C). 5 : 3                      D). 7 : 6                      Correct Answer: A

Q.19 Atul sold two sacks of rice for ₹19,200 each. On one, he gained 20% and on the other, he lost 20%. Find his gain or loss percentage in the whole transaction.

- Ans A). 8% profit                      B). 7% profit                      C). 4% loss                      D). 5% loss                      Correct Answer: C

**Q.20** Study the given table and answer the question that follows.

The given table shows the number of new employees added to different categories of employees in a company for four years and the number of employees from these categories who left the company every year.

Year	Managers		Technicians		Accountants	
	New	Left	New	Left	New	Left
2001	280	120	260	50	200	100
2002	300	92	340	160	228	95
2003	310	150	450	200	254	125
2004	420	120	480	180	260	120

During the period between 2001 and 2004, the total number of Technicians who left the Company is what percentage (rounded off to the nearest integer) of the total number of Technicians who joined the Company?

Ans A). 39%                      B). 35%                      C). 24%                      D). 29%

**Correct Answer: A**

**Section : Reasoning Ability and Problem Solving**

**Q.1** What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $39 \div 3 - 24 + 60 \times 12 = ?$

Ans A). 163                      B). 86                      C). 136                      D). 190

**Correct Answer: C**

**Q.2** In a certain code language, 'I swim fast' is coded as 'cp lk bs' and 'may I go' is coded as 'ap sb lk'. How is 'I' coded in that code language?

Ans A). bs                      B). lk                      C). sb                      D). cp

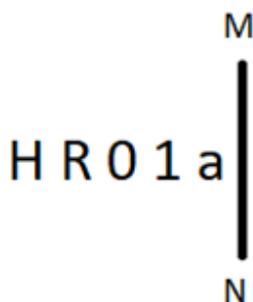
**Correct Answer: B**

**Q.3** Seven people A, B, C, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). A is sitting second to the right of E. Only one person is sitting between D and A. B is sitting third to the right of G. F is an immediate neighbour of B. How many people are sitting between D and E when counted from the left of E?

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

**Correct Answer: A**

**Q.4** Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans A). a 1 O R H                      B). s 1 O R H                      C). 1 a O R H                      D). J 9 O R H

**Correct Answer: B**

**Q.5** In a certain code language, 'WING' is coded as '2618' and 'NEAT' is coded as '3469'. What is the code for 'N' in that language?

Ans A). 6                      B). 8                      C). 1                      D). 3

**Correct Answer: A**

**Q.6** 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 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.)

(4, 35, 11)  
 (1, 82, 61)

Ans A). (13, 53, 20)                      B). (8, 33, 15)                      C). (2, 53, 6)                      D). (21, 310, 23)

**Correct Answer: A**

**Q.7** In a code language, 'CAKE' is written as 'ACIG' and 'GOLD' is written as 'EQJF'. How will 'WIRE' be written in that language?

Ans A). GUPK                      B). UKPG                      C). GUKP                      D). GPUK

**Correct Answer: B**

**Q.8** Select the figure from among the given options that can replace the question mark (?) in the following series and complete the pattern.

A	C	K	C	K	8	△	P	K	P	K	8	
P	↑	8	△	P	Z	▷	Z	8	↑	▷	C	?
△	▷	Z	▷	↑	A	↑	A	C	A	Z	△	

Ans

↑	8	C	↑	P	K	↑	▷	K	△	▷	K
A	K	▷	A	Z	▷	A	C	8	P	C	8
Z	△	P	8	△	C	Z	△	P	↑	A	Z

Correct Answer: C

**Q.9** 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 chickens are hens.  
No hen is an egg.

**Conclusions:**

(I) No chicken is an egg.  
(II) All hens are chickens.

Ans A). Only conclusion II follows    B). Both conclusions I and II follow    C). Neither conclusion I nor II follows    D). Only conclusion I follows

Correct Answer: C

**Q.10** Identify the figure from the given options that when put in place of the question mark (?) will logically complete the series.

∩	⊙	☆	∩	⊙	☆	∩	⊙	?
	☆		⊙		∩		☆	
∇		∇		∇		∇		

Ans

∩	⊙	☆		☆	∩	⊙	∩	⊙	∩
	☆	⊙	∩		⊙		∩	☆	∩
∇		∇		∇		∇		∇	

Correct Answer: C

**Q.11** Seven people A, B, C, D, E, F and G are sitting around a circular table, facing the center (but not necessarily in the same order). C is sitting to the immediate right of E. D is sitting third to the left of C. A is the immediate neighbour of B and C. F is not the immediate neighbour of E.

What is the position of G with respect to A?

Ans A). Second to the left    B). Third to the left    C). Second to the right    D). To the immediate left

Correct Answer: B

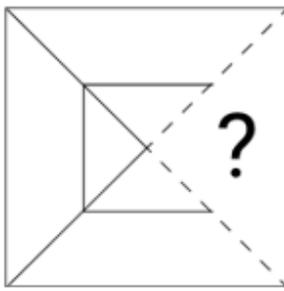
**Q.12** 7 is related to 30 following a certain logic. Following the same logic, 14 is related to 100. To which of the following is 22 related following the same logic?

(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.)

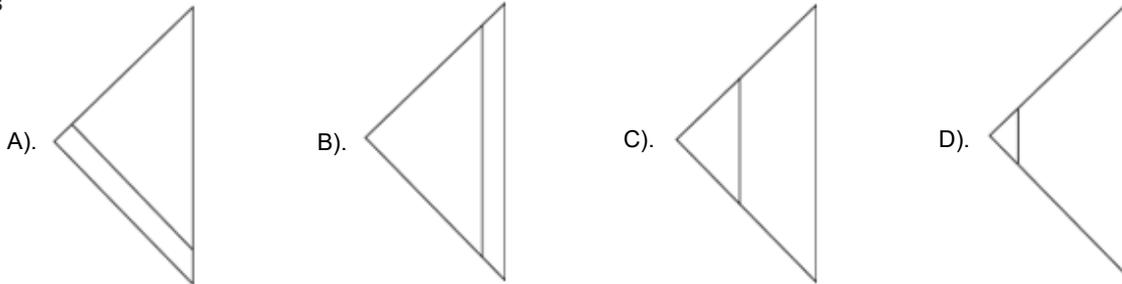
Ans A). 189    B). 190    C). 180    D). 170

Correct Answer: C

Q.13 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.



Ans



Correct Answer: C

Q.14 What should come in place of '?' in the given series?

-12, +24, -48, +96, ?, +384

Ans A). -192                      B). 108                      C). 96                      D). -108

Correct Answer: A

Q.15 What will come in place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?

$5 \div 6 \times 3 - 4 + 11 = ?$

Ans A). 7                      B). 11                      C). 14                      D). 3

Correct Answer: D

Q.16 JM12 is related to EH15 in a certain way. In the same way, QT34 is related to LO37. To which of the following is SV 23 related following the same logic?

Ans A). MP26                      B). MQ27                      C). NQ26                      D). NP27

Correct Answer: C

Q.17 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:  
No bus is a car.  
No car is a truck.

Conclusions:  
(I) No car is a bus.  
(II) No truck is a car.

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: D

Q.18 In a code language, 'COLONY' is coded as '48' and 'INTERCHANGE' is coded as '88'. How will 'MOUNTAIN' be coded in the same language?

Ans A). 64                      B). 86                      C). 66                      D). 84

Correct Answer: A

Q.19 HFLI is related to OMSP in a certain way based on the English alphabetical order. In the same way, KIOL is related to RPVS. To which of the following is MKQN related, following the same logic?

Ans A). TRUX                      B). RTXU                      C). RTUX                      D). TRXU

Correct Answer: D

Q.20 What should come in place of ? in the given series based on the English alphabetical order?

ACE ,FHJ, KMO, PRT , ?

Ans A). NOP                      B). UWY                      C). GJK                      D). BCD

Correct Answer: B

Section : **General Awareness**

**Q.1 The Pharmacy (Amendment) Bill, 2023 was introduced in Lok Sabha on 3 August 2023, which amends the \_\_\_\_\_.**

Ans A). Pharmacy Act, 1950      B). Pharmacy Act, 1949      C). Pharmacy Act, 1947      D). Pharmacy Act, 1948

**Correct Answer: D**

**Q.2 In which state/union territory is Losar celebrated to mark the start of the new year in that region?**

Ans A). Kerala      B). Bihar      C). Ladakh      D). New Delhi

**Correct Answer: C**

**Q.3 Kanak Rele, who established Nalanda Dance Research Centre, was a performer of which of the following classical dance forms of India?**

Ans A). Mohiniyattam      B). Manipuri      C). Kathak      D). Sattriya

**Correct Answer: A**

**Q.4 Which of the following acts introduced the system of dyarchy in the provincial administration in India?**

Ans A). The Government of India Act of 1909      B). The Government of India Act of 1919      C). The Government of India Act of 1935  
D). The Government of India Act of 1947

**Correct Answer: B**

**Q.5 In which part of India is cool mountain climate observed?**

Ans A). West      B). South      C). North      D). East

**Correct Answer: C**

**Q.6 Who was the founder of the Mauryan dynasty?**

Ans A). Vikramaditya      B). Bindusara      C). Chandragupta Maurya      D). Ashoka

**Correct Answer: C**

**Q.7 As of 31<sup>st</sup> October 2023, the senior-most member (in terms of age) in the 17<sup>th</sup> Lok Sabha, Shafiqur Rahman Barq represents which political party?**

Ans A). Bharatiya Janata Party      B). Indian National Congress      C). Samajwadi Party      D). Rashtriya Janata Dal

**Correct Answer: C**

**Q.8 Which of the following books is written by Dadabhai Naoroji?**

Ans A). Poverty and India      B). Important Chapters of Poverty      C). Poverty and Un-British Rule in India      D). Economics History of India

**Correct Answer: C**

**Q.9 The historical fiction 'The Glory of Patan' by KM Munshi was originally written in which Indian language?**

Ans A). Malayalam      B). Bengali      C). Tamil      D). Gujarati

**Correct Answer: D**

**Q.10 On which date did Punjab abolish the Legislative Council?**

Ans A). 1 January 1971      B). 1 January 1977      C). 1 January 1975      D). 1 January 1970

**Correct Answer: D**

**Q.11 The chemical compound present in turmeric is:**

Ans A). curcumin      B). tartaric acid      C). carotene      D). capsaicin

**Correct Answer: A**

**Q.12 Who among the following established the Indore gharana?**

Ans A). Bhimsen Joshi      B). Ustad Amir Khan      C). Tansen      D). Ustad Ghaghe Khuda Baksh

**Correct Answer: B**

**Q.13 With reference to medieval Indian architecture style, what is 'Pietra Dura'?**

Ans A). Sculpture art of the Mauryan period      B). Oil paintings on the walls of Taj Mahal      C). Fine quality clothes used by the Mughals  
D). Decorating the walls with floral designs made of semi-precious stones

**Correct Answer: D**

**Q.14 The Rabi season of agriculture begins in October-November and ends in \_\_\_\_\_.**

Ans A). June-July      B). March-April      C). January-February      D). May-June

**Correct Answer: B**

**Q.15 What is the chemical formula for sodium bicarbonate?**

Ans A). NaCl      B). Na<sub>2</sub>CO<sub>3</sub>      C). NaHCO<sub>3</sub>      D). NaOH

**Correct Answer: C**

**Q.16 Which of the following is one of the features of capital goods?**

Ans A). They are durable.      B). They are inexpensive.      C). They are Giffen goods.      D). They are inferior goods.

**Correct Answer: A**

**Q.17** निम्न से कौन-सा पद्म पुरस्कारों का घटता क्रम क्या है?

**Ans** A). पद्म श्री, पद्म विभूषण, पद्म भूषण B). पद्म भूषण, पद्म श्री, पद्म विभूषण C). पद्म विभूषण, पद्म भूषण, पद्म श्री D). पद्म श्री, पद्म भूषण, पद्म विभूषण

**Correct Answer: C**

**Q.18** Which of the following dynasties established the Vijayanagara kingdom in fourteenth century?

**Ans** A). Aravidu dynasty B). Saluva dynasty C). Tuluva dynasty D). Sangama dynasty

**Correct Answer: D**

**Q.19** The red colour of tomatoes is due to the presence of:

**Ans** A). limonene B). lycopene C). beta carotene D). alizarin

**Correct Answer: B**

**Q.20** Which Union Territory had minimum literacy rate as per 2011 Census?

**Ans** A). Chandigarh B). Dadra and Nagar Haveli C). Lakshadweep D). Delhi

**Correct Answer: B**

**Q.21** In 1976, in which Part of the Indian Constitution under Article 51A were Fundamental Duties added?

**Ans** A). VI B). V C). IV A D). III

**Correct Answer: C**

**Q.22** With which sport is Sanjana Bathula associated?

**Ans** A). Roller skating B). Squash C). Shooting D). Badminton

**Correct Answer: A**

**Q.23** Who was the captain of Royal Challengers Bangalore in the Women's Premier League event 2023?

**Ans** A). Harmanpreet Kaur B). Deepti Sharma C). Shafali Verma D). Smriti Mandhana

**Correct Answer: D**

**Q.24** Which of the following statements is/are correct about the famous place Mawsynram?

- A. It is the wettest place on the earth.  
B. It is located in Meghalaya state of India.

**Ans** A). Only A is correct. B). Neither A nor B is correct. C). Only B is correct. D). A and B both are correct.

**Correct Answer: D**

**Q.25** How many countries share their land borders with India?

**Ans** A). Nine B). Seven C). Six D). Eight

**Correct Answer: B**

**Section : English Language and Comprehension**

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

**Ans** A). Trifle B). Surrender C). Consistent D). Disgust

**Correct Answer: C**

**Q.2** Select the most appropriate synonym of the given word.  
Ecstatic

**Ans** A). Shocked B). Happy C). Angry D). Interested

**Correct Answer: B**

**Q.3** The following sentence has been split into four segments. Identify the segment that contains a phrasal verb error.

Mrs. Premalatha asked / Malini to hand down / all the / payment slips.

**Ans** A). all the B). Mrs. Premalatha asked C). Malini to hand down D). payment slips

**Correct Answer: C**

**Q.4** What does it imply when people say to 'read between the lines'?

**Ans** A). To read something fast B). To read with an ability to infer the meaning C). To skip initial and final lines in a paragraph  
D). To avoid detailed information

**Correct Answer: B**

**Q.5** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The workers had been repairing / the mall road in / town for / several days now.

**Ans** A). the mall road in B). several days now C). The workers had been repairing D). town for

**Correct Answer: C**

**Q.6** Select the most appropriate meaning of the given idiom.  
A piece of cake

**Ans** A). A slice of cake for eating B). Easy to do or achieve C). A cake which is sold as a piece D). A cake that broke into pieces

**Correct Answer: B**

**Q.7** Select the most appropriate option to fill in the blank.  
Cultural heritage is the lifeblood of any \_\_\_\_\_ and serves as a link between generations.

Ans A). lethargy                      B). birthright                      C). civilisation                      D). believe

**Correct Answer: C**

**Q.8** Select the most appropriate verb form to fill in the blank.

Arun \_\_\_\_\_ his bicycle to school every day.

Ans A). ride                      B). riding                      C). rides                      D). rode

**Correct Answer: C**

**Q.9** Select the most appropriate synonym of the word 'pursue' from the given sentence.

Dr. Kalam's success in the field of science has inspired young Indians to dream big and chase those dreams with immense hard work.

Ans A). chase                      B). inspired                      C). immense                      D). success

**Correct Answer: A**

**Q.10** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
My secretary is disposed of / discuss everything in great detail / before she begins / the actual work.

Ans A). My secretary is disposed of    B). discuss everything in great detail    C). before she begins    D). the actual work.

**Correct Answer: A**

**Q.11** Select the option that correctly rectifies the underlined spelling error.

The accideent on the highway caused a long traffic jam.

Ans A). accidnt                      B). acident                      C). accident                      D). acident

**Correct Answer: C**

**Q.12** The following sentence has been divided into four segments. One of them contains an error. Select the segment that contains the error from the given options.

Neither Smith / nor Rose / were in / the classroom.

Ans A). Neither Smith                      B). were in                      C). the classroom                      D). nor Rose

**Correct Answer: B**

**Q.13** Select the most appropriate synonym of the underlined word

The project's tight deadline and complex requirements made it a gruelling task for the team.

Ans A). Empowering                      B). Inclusive                      C). Challenging                      D). Accessible

**Correct Answer: C**

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

He is \_\_\_\_\_ tired to finish his homework.

Ans A). to                      B). too                      C). most                      D). more

**Correct Answer: B**

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

Please listen to all announcements \_\_\_\_\_.

Ans A). easily                      B). generally                      C). hungrily                      D). attentively

**Correct Answer: D**

**Q.16** Select the most appropriate synonym of the given word.

Energy

Ans A). Frailty                      B). strife                      C). Speed                      D). Power

**Correct Answer: D**

**Q.17** Select the most appropriate synonym of the underlined word.

The detective's job was to discern the truth from the web of lies.

Ans A). Ignore                      B). Confuse                      C). Perceive                      D). Fabricate

**Correct Answer: C**

**Q.18** Select the sentence that has a grammatical error.

Ans A). She always eats healthy meals.                      B). The sun rises in the east.                      C). We watches movies every Friday night.  
D). He works as a software developer.

**Correct Answer: C**

**Q.19** Select the option that correctly rectifies the underlined spelling error.

The rainbow only appears after a hurican.

Ans A). hurrecane                      B). hurrecain                      C). hurrican                      D). hurricane

**Correct Answer: D**

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

Accepting how wonderful you truly are and incorporating this \_\_\_\_\_ into your attitude and personality is perhaps one of the most difficult things to do in life.

Ans A). insight                      B). craziness                      C). folly                      D). glitch

**Correct Answer: A**

