PREVIOUS YEAR PAPER

SSC CGL 2022 Tier II — Paper I — 7 March 2023

SSC CGL · 7 March 2023 · 9:00 AM - 12:00 PM

137 of the paper's 150 questions · marks per question not printed on the response sheet · 180 minutes

Left out of the original paper: 13 (any question that needs a figure or formatting we cannot show, has no answer in the response sheet, or could not be checked against a second copy of the paper).

Questions from the Staff Selection Commission's paper of 7 March 2023, 9:00 AM - 12:00 PM. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/ssc-cgl/previous-year-papers/ssc-cgl-2022-tier-2-paper-1-7-mar/

Mathematical Abilities

1. Find the average of the following sets of numbers. 693, 456, 876, 532, 934, 691, 596, 398, 682

(a) 550.50

(b) 750.80

(c) 650.89

(d) 725.90

Answer: (c)

2. The largest three-digit number that gives the same remainder 2 when divided by 3, 5 and 9 is _____.

(a) 999

(b) 984

(c) 998

(d) 992

Answer: (d)

3. A person can hit a target 5 times out of 8 shots. If he fires 10 shots, what is the probability that he will hit the target twice?

(a) $\frac{1135 \times 3^8}{8^{10}}$

(b) $\frac{1165 \times 3^8}{8^{10}}$

(c) $\frac{1175 \times 3^8}{8^{10}}$

(d) $\frac{1125 \times 3^8}{8^{10}}$

Answer: (d)

4. The angle of elevation of the top of a tower from the top of a building whose height is 680 m is 45° and the angle of elevation of the top of same tower from the foot of the same building is 60°. What is the height (in m) of the tower?

(a) 340(3 + √3)

(b) 310(3 - √3)

(c) 310(3 + √3)

(d) 340(3 - √3)

Answer: (a)

6.

In a trapezium ABCD, AB and DC are parallel to each other with a perpendicular distance of 8 m between them. Also, (AD) = (BC) = 10 m, and (AB) = 15 m < (DC). What is the perimeter (in m) of the trapezium ABCD?

(a) 50

(b) 66

(c) 62

(d) 58

Answer: (c)

7. A prism and a pyramid have the same base and the same height. Find the ratio of the volumes of the prism and the pyramid.

(a) 2:3

(b) 3:1

(c) 1:3

(d) 3:2

Answer: (b)

8.

If $x = \sqrt{64} + \sqrt{121} - \sqrt{169}$, then find the value of x^2.

(a) 16

(b) 25

(c) 36

(d) 49

Answer: (c)

9. If two LED TVs and one mobile phone cost ₹31,000, while two mobile phones and one LED TV cost ₹35,000, then the value of one mobile phone is:

(a)

₹13,500

(b)

₹12,500

(c)

₹13,000

(d)

₹12,000

Answer: (c)

10. What is the volume of a cylinder if the radius of cylinder is 10 cm and height is 20 cm? (Take π = 3.14)

(a) 6280 cm^3

(b) 5306 cm^3

(c) 6260 cm^3

(d) 5280 cm^3

Answer: (a)

11. P, Q and R can finish a work in 5 days, 10 days, and 15 days, respectively, working alone. P and Q works on first day, P and R works on second day and P and Q works on third day and son on till the work is completed. In how many days the work will be completed?

(a) $\frac{13}{2}$

(b) $\frac{9}{2}$

(c) $\frac{7}{2}$

(d) $\frac{5}{2}$

Answer: (c)

12. A goods train 350 m long passes through a tunnel of length 1250 m in 80 seconds. What is the speed of the train?

(a) 64 km/h

(b) 56 km/h

(c) 78 km/h

(d) 72 km/h

Answer: (d)

13.

If one of the interior angles of a regular polygon is $\frac{15}{16}$ times of one of the interior angles of a regular decagon, then find the number of diagonals of the polygon.

(a) 20

(b) 14

(c) 2

(d) 35

Answer: (a)

14. If the four-digit number 463y is divisible by 7, then what is the value of y?

(a) 4

(b) 6

(c) 3

(d) 5

Answer: (a)

15.

If $a \cot \theta + b \operatorname{cosec} \theta = p$ and $b \cot \theta + a \operatorname{cosec} \theta = q$ then $p^2 - q^2$ is equal to ____.

(a)

$b^2 - a^2$

(b)

$a^2 - b^2$

(c)

$b - a$

(d)

$a^2 + b^2$

Answer: (a)

16. PQRS is a cyclic quadrilateral. If ∠P is three times of ∠R and ∠S is four times of ∠Q, then the sum of ∠S + ∠R will be:

(a) 169°

(b) 171°

(c) 187°

(d) 189°

Answer: (d)

17. Working for 10 hours per day, 6 men can build a wall in a certain number of days. By working for how many hours/minutes per day can 12 men build the wall in the same days?

(a) 7 hours 30 minutes

(b) 5 hours

(c) 20 hours

(d) 10 hours

Answer: (b)

18.

If $2^x + 3^y = 17$ and $2^{x+2} - 3^{y+1} = 5$, then :

(a) x = 1, y = 3

(b) x = 3, y = 3

(c) x = 3, y = 2

(d) x = 1, y = 2

Answer: (c)

19. What is the mode of the given data? 5, 7, 9, 7, 3, 7, 5, 7, 8, 6, 7

(a) 7

(b) 6

(c) 5

(d) 3

Answer: (a)

20. Which of the following numbers is divisible by 11?

(a) 5214341

(b) 5648741

(c) 6598321

(d) 2378965

Answer: (a)

21. It is given that $\Delta ABC \cong \Delta PQR$, AB = 5 cm, $\angle B = 40°$, and $\angle A = 80°$. Which of the following options is true?

(a) PQ = 5 cm and $\angle R = 60°$

(b) QR = 5 cm and $\angle R = 60°$

(c) QR = 5 cm and $\angle Q = 60°$

(d) PQ = 5 cm and $\angle P = 60°$

Answer: (a)

22. How many kilogram of rice costing Rs.60 per kg st be mixed with 24 kg of rice costing Rs.42 per kg so that there may be a gain of 12% by sellin e mixture at Rs.56 per kg?

(a) 22 kg

(b) 20 kg

(c) 19.2 kg

(d) 21.2 kg

Answer: (c)

23. At a clearance sale, a shopkeeper gives 45% discount. If a customer paid ₹330 during the sale, then what is the marked price of that shirt ?

(a) ₹550

(b) ₹600

(c) ₹500

(d) ₹650

Answer: (b)

24. If 20% of (A + B) = 30% of (A − B), then what percentage of B is equal to A?

(a) 400%

(b) 300%

(c) 500%

(d) 100%

Answer: (c)

26. Rajnish borrowed ₹1,500 from a bank and repaid the entire amount with interest in two equal annual instalments, the first instalment being paid a year after Rajnish borrowed from the bank. If the rate of interest was 40% per annum, compounded annually, then what was the value (in ₹) of each instalment paid by Rajnish?

(a) 1125

(b) 1470

(c) 1225

(d) 1350

Answer: (c)

27. A sum triple itself in 9 years at simple interest. Find the rate of interest per annum is.

(a)

$38\frac{2}{9}\%$

(b)

$33\frac{1}{3}\%$

(c)

$27\frac{1}{9}\%$

(d)

$22\frac{2}{9}\%$

Answer: (d)

28. A starts a business with ₹75,000 and B joins the business 5 months later with an investment of ₹ 80,000. After 1 year, they earn a profit of ₹4,08,800. Find the share of A and B (in ₹).

(a) 2,52,000 and 1,56,800

(b) 2,50,000 and 1,58,800

(c) 2,48,000 and 1,60,800

(d) 2,49,500 and 1,59,300

Answer: (a)

29.

$$(\sin\theta + \operatorname{cosec}\theta)^2 + (\cos\theta + \sec\theta)^2 = ?$$

(a)

$5 + \tan^2\theta + \cot^2\theta$

(b)

$7 + \tan^2\theta - \cot^2\theta$

(c)

$7 + \tan^2\theta + \cot^2\theta$

(d)

$5 + \tan^2\theta - \cot^2\theta$

Answer: (c)

Reasoning and General Intelligence

1. Information given below represents the number codes for the given letters. Select the combination of numbers so that the letters arranged accordingly will form a meaningful word. R = 1, E = 2, A = 3, C = 4, T = 5, I = 6, V = 7, E = 8

(a) 4,1,2,3,5,8,7,6

(b) 4,1,2,3,5,6,7,8

(c) 7,2,1,3,8,4,5,6

(d) 4,3,1,5,6,7,8,2

Answer: (b)

2. In a code language, 'SLAIN' is written as 'PK[illegible] and 'DENT' is written as 'VPGF'. How will 'CUBOID' be written in that language?

(a) FKQDWE

(b) FJQDWE

(c) FKQDVF

(d) EWDPKE

Answer: (a)

3. Three of the following four triads are alike in a certain way as they are formed by performing same mathematical operations among themselves and thus form a group. Which triad does NOT belong to that group?

(a) 11 : 21 : 121

(b) 7 : 15 : 49

(c) 2 : 3 : 4

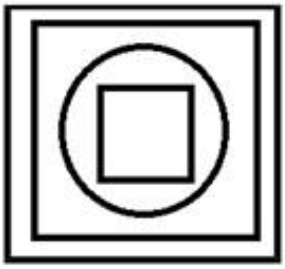
(d) 9 : 17 : 81

Answer: (b)

4.

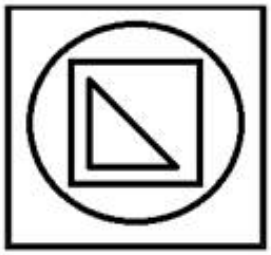
Out of the following five figures, four are alike in some manner and one differs from these in that manner. Select the odd figure.

(a)

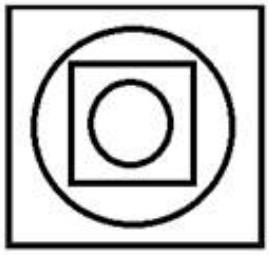


(b)

(c)



(d)



Answer: (c)

5. Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation. 11 * 7 * 345 * 5 * 31 = 115

(a) + × ÷ −

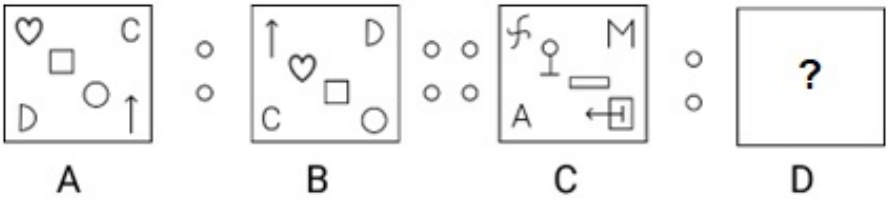
(b) × + ÷ −

(c) ÷ × + −

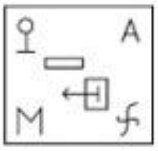
(d) ÷ − + ×

Answer: (b)

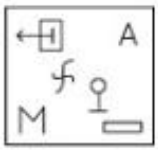
6. Figure A is related to B following a certain pattern. Following the same pattern, figure C is related to D. Study the pattern and select the figure which should be placed in place of D.



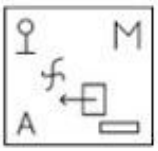
(a)



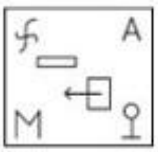
(b)



(c)



(d)



Answer: (b)

7. Seven persons are sitting around a circular dining table facing the towards the centre. S is sitting to the immediate left of Y and third to the right of R. R is sitting to the immediate left of A and immediate right of P. A is sitting to the immediate left of D. Q is sitting to the immediate left of P. If D exchanges seat with Y and P with Q, then who is sitting to the immediate right of D?

(a) P

(b) S

(c) Q

(d) R

Answer: (a)

8. In this question, two statements I and II have been given. These statements may be independent causes or effects of independent causes or a common cause. One of the statements may be the effect of the other statement. Read both statements and select the correct answer. I.Over the last two years 22% of the Company P's manpower was laid off. II.Over the past two years Company P has sold off many of their major assets.

(a) Both I and II are effects of a common cause.

(b) I is the cause and II is its possible effect.

(c) II is the cause and I is its possible effect.

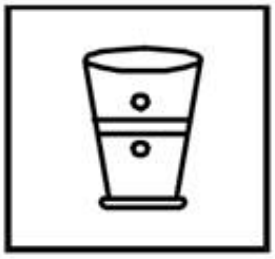
(d) Both I and II are independent causes.

Answer: (a)

9.

Out of the following five figures, four are alike in some manner and one differs from these in that manner. Select the odd figure.

(a)



(b)

(c)

(d)

Answer: (c)

10. Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::? # : KNE :: PQV : %

(a) # = NOB, % = SRY

(b) # = NKF, % = MTU

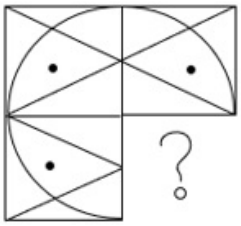
(c) # = MOB, % = RTT

(d) # = HQD, % = MTV

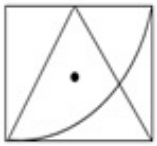
Answer: (b)

11.

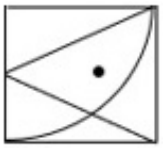
Select the figure from the options that can replace the question mark (?) and complete the given pattern.



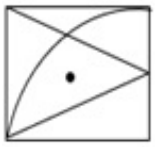
(a)



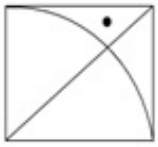
(b)



(c)

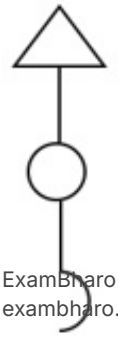


(d)

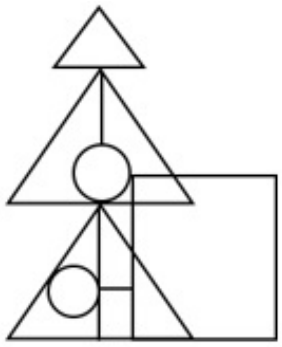


Answer: (b)

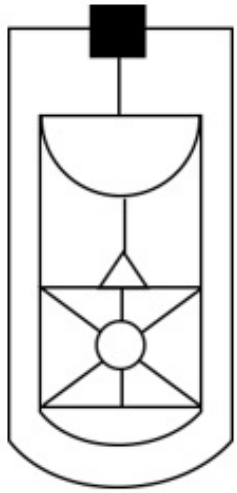
13. Select the option in which the following figure is embedded. (Rotation is NOT allowed)



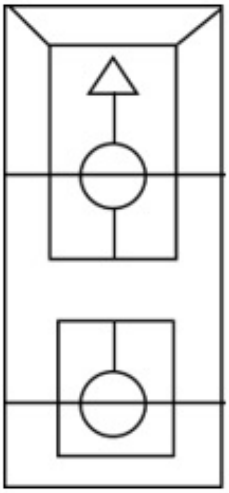
(a)



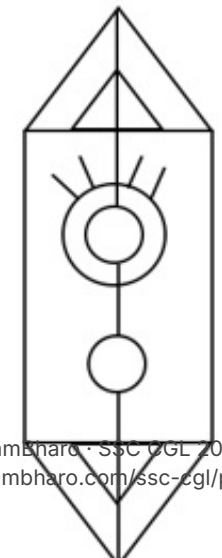
(b)



(c)



(d)



Answer: (d)

14. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statement: Some Bangles are Bracelets. All chains are Rings. Some Bracelets are Chains. Conclusions:
(I) Some Bangles are Rings.
(II) Some Chains are Bangles.
(III) Some Rings are Bracelets.

(a) Only Conclusion III follows.

(b) Both Conclusions I and II follow.

(c) Both Conclusions I and III follow.

(d) Only Conclusion I follows.

Answer: (a)

15. Amit ranked 7th from the top and 26th from the bottom in his class. How many students are there in the class?

(a) 31

(b) 33

(c) 27

(d) 32

Answer: (d)

16. Select the number from among the given options that can replace the question mark (?) in the following series. 242, 288, ?, 392, 450

(a) 338

(b) 375

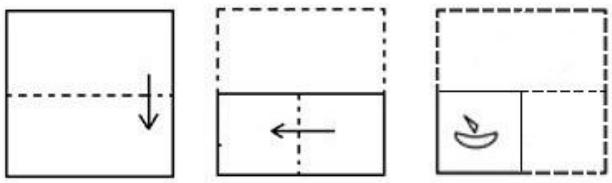
(c) 316

(d) 324

Answer: (a)

18.

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose a figure which would most closely resemble the unfolded form of the paper.



(a)

(b)

(c)

(d)

Answer: (a)

19. Select the option that represents the letters that, when placed from left to right in the following blanks, will complete the letter-series. S C R _ W S _ R _ W _ C _ G W S _ R H _

(a) G D F S R C W

(b) H D F S R C W

(c) E C F S R C W

(d) E D F S R D W

Answer: (c)

20. If + means −, − means ×, × means ÷, and ÷ means +, what will be the value of the following expression? 3 ÷ 6 + 3 − 4 × 4 = ?

(a) 8

(b) 5

(c) 6

(d) 4

Answer: (c)

21. In this question, a statement is followed by two courses of actions, numbered I and II. You must assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the course of action/s logically follow for pursuing. Statement: Some serious mistakes were found in the technical section of a company. Course of Action:
I. An efficient technical team should be appointed to check the technical errors.
II. A reason explanation notice should be issued to all the employees involved in the irregularities.

(a) Neither I nor II follows

(b) Only I follows

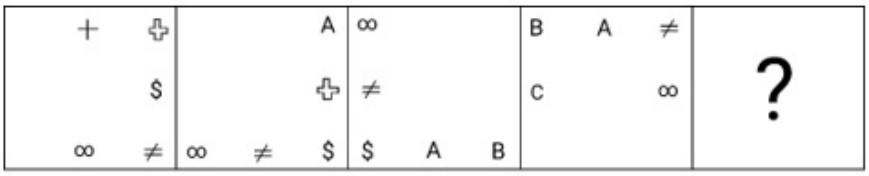
(c) Only II follows

(d) Both I and II follow

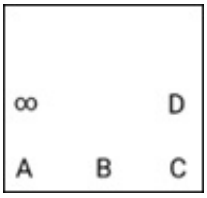
Answer: (d)

22.

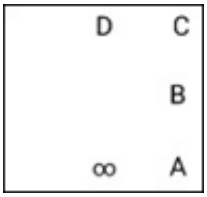
Select the figure from among the given options that can replace the question mark (?) in the following series.



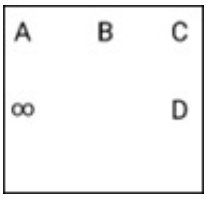
(a)



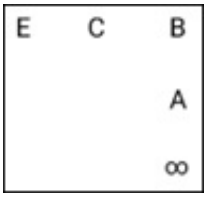
(b)



(c)



(d)



Answer: (a)

23. In a certain code language, 'POLISH' is written as '89' and 'CLIP' is written as '72'. How will 'CONTROL' be written in that language?

(a) 89

(b) 92

(c) 106

(d) 99

Answer: (d)

24. Three of the following words are alike in some manner and hence form a group. Which word does NOT belong to that group? (The words must be considered as meaningful English words and must not be grouped based on the number of letters/number of consonants/vowels in the word)

(a) Engineer

(b) Doctor

(c) Carpenter

(d) Teacher

Answer: (c)

25. 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 its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting / 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) (18, 39, 60), (27, 48, 69)

(a) (24, 64,96)

(b) (35, 56, 77)

(c) (31, 52, 84)

(d) (17, 28, 49)

Answer: (b)

26. ‘A # B’ means ‘A is the brother of B’. ‘A @ B’ means ‘A is the daughter of B’. ‘A & B’ means ‘A is the husband of B’. ‘A % B’ means ‘A is the wife of B’. If Z % Y # C @ V & B @ N, then how is Z related to B?

(a) Son’s wife

(b) Daughter

(c) Husband’s mother

(d) Mother

Answer: (a)

27. ‘A # B’ means ‘A is the brother of B’. ‘A @ B’ means ‘A is the daughter of B’. ‘A & B’ means ‘A is the husband of B’. ‘A % B’ means ‘A is the wife of B’. If D @ N @ H & Y @ F % V, then how is Y related to D?

(a) Mother’s mother

(b) Sister’s daughter

(c) Mother

(d) Daughter’s daughter

Answer: (a)

28. In the given question, the statement is followed by two conclusions. Which of the two conclusions is/are true? Statement: Z = E ≥ R > G < Y > Q = F Conclusions:
I. R < F
II. R ≥ Z

(a) Both conclusions I and II are true

(b) Only conclusion II is true

(c) Only conclusion I is true

(d) Neither conclusion I nor II is true

Answer: (d)

29. A question is given, followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and select the appropriate answer. Question: Four people, A, B, C and D, are sitting in a straight line, facing south. Who is sitting at the right end? Statements: (I) Only two people sit between B and D; A sits to the immediate left of B. (II) Only one person sits between B and C; A sits to the immediate right of C.

(a) Data in statement I alone is sufficient to answer the question while data in statement II is not

(b) Data in statement II alone is sufficient to answer the question while data in statement I is not

(c) Data in either statement I alone or statement II alone is sufficient to answer the question

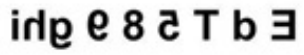
(d) Data in statements I and II together is sufficient to answer the question

Answer: (a)

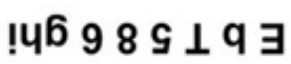
30.

Select the correct mirror image of the given combinati when the mirror is held at the right side of the image.

(a)



(b)



(c)

(d)

Answer: (a)

English Language and Comprehension

1. Select the correct homonym from the given options to fill in the blank. The athlete's_____ was badly injured due to a fall on the track.

(a) toad

(b) toe

(c) tow

(d) to

Answer: (b)

2. Select the option that expresses the given sentence in direct speech. Harry said that he would not be in town on Friday.

(a) Harry saying, "I will not be in town on Friday".

(b) Harry said, "I will not be in town on Friday".

(c) Harry said, "I can't be in town on Friday".

(d) Harry said, "I must not be in town on Friday".

Answer: (b)

4. Select the most appropriate ANTONYM of the underlined word.

The audience <u>sneered</u> at the monologue uttered by the veteran actor.

(a) Waved

(b) Lauded

(c) Unleashed

(d) Ascribed

Answer: (b)

5. Select the most appropriate option to fill in the blank. Nowadays, online shopping is easier _____ shopping in a market.

(a) like

(b) than

(c) then

(d) as

Answer: (b)

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) The Sustainable Development Goals (SDGs) were adopted by all United Nations Member States in 2015 to end poverty, reduce inequality and build more peaceful, prosperous societies by 2030.
B) The SDGs cannot be achieved without the realisation of child rights.
C) Also known as the Global Goals, the SDGs are a call to action to create a world where no one is left behind.
D) As world leaders work to deliver on the 2030 promise, children around the globe are standing up to secure their right to good health, quality education, a clean planet and more.

(a) ABDC
(b) ADCB
(c) ACBD
(d) ADBC

Answer: (c)

7. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
P. The prices of cooking gas, pulses and vegetables have registered a sharp rise.
Q. In recent years the prices of essential commodities have gone up sharply.
R. The low-income groups and the salaried classes are the worst sufferers.
S. Living has become quite a costly affair these days.

(a) RPSQ
(b) QSRP
(c) SRQP
(d) PQRS

Answer: (c)

9. Identify the INCORRECTLY spelt word in the given sentence. If she had begun earlier, she might have suceeded in finishing the extremely intricate project before the deadline.

(a) deadline
(b) intricate
(c) suceeded
(d) earlier

Answer: (c)

10. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Everybody stared / when me / entered the / drawing room.

(a) when me
(b) Everybody stared
(c) drawing room
(d) entered the

Answer: (a)

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. I was almost drowned a dozen times; was nearly boiled alive and just missed being cremated.
B. Now, my well-being is simply the result of a careful and measured mode of living and perhaps the most astonishing thing is that three times in my youth I was rendered by illness a hopeless physical wreck and given up by physicians.
C. More than this, through ignorance, and light-heartedness, I got into all sorts of difficulties, dangers and scrapes from which I extricated myself as by enchantment.
D. But as I recall these incidents to my mind I feel convinced that my preservation was not altogether accidental.

(a) CADB
(b) BADC
(c) BCAD
(d) DCAB

Answer: (c)

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'.

Bloomberg Businessweek is <u>not more popular than</u> some other business magazines in the US.

(a) No substitution required
(b) the most popular than
(c) as more popular than
(d) so popular than

Answer: (a)

13. Select the option that can be used as a one [illegible] substitute for the given group of words. The one who loves mankind

(a) Pessimist
(b) Misogynist
(c) Optimist
(d) Philanthropist

Answer: (d)

14. Select the most appropriate meaning of the underlined word in a sentence.

Even though James won the election, he has not brought any of his campaign promises to <u>fruition.</u>

(a) concealment
(b) nourishment
(c) disappointment
(d) accomplishment

Answer: (d)

15. Select the most appropriate option to fill in the blank. The committee will _____ a survey on the government schemes.

(a) conduct
(b) fight
(c) hold
(d) originate

Answer: (a)

16. Select the option that can be used as a one-word substitute for the given group of words. An arched structure in a garden having climbing plants

(a) Shelter
(b) Pergola
(c) Path
(d) Shed

Answer: (b)

17. Select the most appropriate option to fill in the blank. The security guard needs a _____ of shoes.

(a) pare
(b) pear
(c) payor
(d) pair

Answer: (d)

18. Select the option that expresses the given sentence in active voice. A new invention has been made by him.

(a) He was making a new invention.
(b) He has made a new invention.
(c) He had been making a new invention.
(d) He were making a new invention.

Answer: (b)

19. Select the most appropriate ANTONYM of the underlined word.

Aunt May thought that Uncle Ken's job as a manager at Firpo's hotel in Shimla was a <u>stable</u> one.

(a) Lucrative
(b) Permanent
(c) Durable
(d) Mutable

Answer: (d)

20. Sentences of a paragraph are given in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. Instead, they are constrictors, meaning they squeeze their prey to death before swallowing it whole.
B. Agile on water but awkward on land, the green anaconda is one of the largest snakes in the world.
C. Most people assume that anacondas are very poisonous, but they are actually nonvenomous.
D. At 29 feet long and 550 pounds, these snakes are huge!

(a) BACD

(b) BDCA

(c) BCAD

(d) DABC

Answer: (b)

21. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Daniel sat on / his new bike / and went afar / a ride.

(a) a ride

(b) his new bike

(c) and went afar

(d) Daniel sat on

Answer: (c)

22. Select the most appropriate option to fill in the blank. When the victim narrated his version of the incident, the jury was _____ .

(a) honestly satisfied

(b) perfectly satisfied

(c) completely satisfied

(d) excruciatingly satisfied

Answer: (c)

23. Select the option that expresses the given sentence in indirect speech. She said impatiently, “I don’t need any help.”

(a) She said impatiently that I don’t need any help.

(b) She said impatiently that she didn’t need any help.

(c) She said impatiently she don’t need any help.

(d) She said impatiently that she doesn’t need any help.

Answer: (b)

24. Select the option that expresses the given sentence in direct speech. The mother said that the kids were playing.

(a) The mother said, “The kids have been playing”.

(b) The mother has said, “The kids were playing”.

(c) The mother told, “The kids had been playing”.

(d) The mother said, “The kids are playing”.

Answer: (d)

25. Sentences of a paragraph are given below. While the first and the last sentences (S1 and S6) are in the correct order, the sentences in between are jumbled up. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. S1. In Dr. Babasaheb Ambedkar
A. but also an elder statesman and national leader
B. we have not only a crusader against the caste system,
C. a valiant fighter for the cause of the downtrodden in India
D. whose contribution in the form of the Constitution of India S6. will be cherished forever by posterity.

(a) DABC

(b) CABD

(c) BACD

(d) ABCD

Answer: (c)

26. Select the most appropriate meaning of the given idiom. Water under the bridge

(a) Past events that are not important anymore

(b) Difficult situations in one's life

(c) Promises that are made to someone and never fulfilled

(d) A seasoned crop with a heavy demand

Answer: (a)

27. Select the option that expresses the given sentence in passive voice. The courier boy did not deliver the parcel.

(a) The parcel did not deliver by the courier boy.

(b) The parcel had not been delivered by the courier boy.

(c) The parcel had not delivered by the courier boy.

(d) The parcel was not delivered by the courier boy.

Answer: (d)

28. 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. No country has yet achieved the combination of very high human development with a light ecological footprint and the impacts of climate change and biodiversity loss are growing.
B. Compounded by a climate emergency, political polarization and challenged multilateralism, continued conflicts, and forced displacement, the number of people living in poverty rose in 2020 for the first time since 1998 by an estimated 119-124 million and inequalities are growing, and the traditional social contract is no longer working for many.
C. The challenge of reaching Agenda 2030 was already significant, even before the COVID-19 pandemic hit.
D. Today's development challenges are dynamic, interconnected puzzles of multidimensional risk that require systemic solutions and multilateral cooperation is vital in addressing these shared challenges that cross boundaries of geography and time.

(a) DBAC

(b) ABDC

(c) BCDA

(d) CBDA

Answer: (d)

29. Identify the INCORRECTLY spelt word in the given sentence. The board reviewing the courses offered by the afiliated college found that the quality of academic programs was usually good but somewhat irregular.

(a) irregular

(b) academic

(c) review

(d) afiliated

Answer: (d)

Passage — for questions 30–33

> In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. The Sun is the star at the center of (1) _____ Solar System. It is a nearly perfect ball of hot plasma. The Sun has inspired us since ancient times. It's central to mythology and religion in (2) _____ around the world. It keeps our planet warm enough for living things to grow. It gives us light so we can see. It is by far the most important (3) _____of energy for life on Earth. It is about a hundred times as wide (4)_____ the Earth. If there were no sun, many things wouldn't occur like photosynthesis or the presence of oxygen, which would have caused no existence of life.

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

(a) huge

(b) typical

(c) a

(d) the

Answer: (d)

31. Select the most appropriate option to fill in blank number 2.

(a) scenes

(b) processes

(c) cultures

(d) types

Answer: (c)

32. Select the most appropriate option to fill in blank number 3.

(a) control

(b) gesture

(c) source

(d) symbol

Answer: (c)

33. Select the most appropriate option to fill in blank number 4.

(a) like

(b) as

(c) than

(d) about

Answer: (b)

Passage — for questions 34–37

> Read the following passage and answer the questions given after it. Notwithstanding logistical challenges posed by COVID19 pandemic, India continues to expand its rice exports footprint in the African, Asian and European Union markets, thus having the largest share in global rice trade. The robust global demand also helped India's growth in rice exports. In 2020-21, India's rice exports (Basmati and Non-Basmati) rose by a huge 87 per cent to 17.72 Million Tonne (MT) from 9.49 MT achieved in 2019-20. In terms of value realisation, India's rice exports rose by 38 per cent to USD 8815 million in 2020-21 from USD 6397 million reported in 2019-20. In terms of Rupees, India's rice export grew by 44 per cent to Rs 65298 crore in 2020-21 from Rs 45379 crore in the previous year. In the first seven months of the current financial year (2021-22), India's rice exports rose by more than 33 per cent to 11.79 MT from 8.91 MT achieved during April-October, 2020-21. It is anticipated that India's rice exports in 2021-22 would likely surpass the record feet of 17.72 MT achieved in 2020-21. In 2020-21, India shipped non-basmati rice to nine countries - Timor-Leste, Puerto Rico, Brazil, Papua New Guinea, Zimbabwe, Burundi, Eswatini, Myanmar and Nicaragua, where exports were carried out for the first time or earlier the shipment was smaller in volume. India's Non-Basmati rice exports was valued at USD 4796 million (Rs 35448crore) in 2020-21, with Basmati Rice exports a close second at USD 4018 million (Rs 29,849 crore). In terms of volume of Basmati rice exports in 2020-21, top ten countries – Saudi Arabia, Iran, Iraq, Yemen, United Arab Emirates, United States of America, Kuwait, United Kingdom, Qatar and Oman have a share of close to 80 per cent in total shipments of aromatic long grained rice from India. Top ten countries – Nepal, Benin, Bangladesh, Senegal, Togo, Cote D Ivoire, Guinea, Malaysia, Iraq, United Arab Emirates – have a share of 57 per cent in India's total exports of non-Basmati rice in 2020-21 in terms of volume.

34. What is the estimate of rice export in the year 2021-22?
    (a) It will remain the same as the 17.72 MT rice exp[illegible] achieved in 2020-21.
    (b) It may fall below the 17.72 MT rice export achi[illegible]d in 2020-21.
    (c) It will exceed the 17.72 MT rice export achiev[illegible]n 2020-21.
    (d) It will not pass beyond the 17.72 MT [illegible] achieved in 2020-21.

    Answer: (c)

35. Which of the following questions cannot be answered on the basis of the above passage?
    (a) How much Basmati rice was exported by India in 2020-21?
    (b) How much rice (Basmati and Non Basmati) was exported by India in 2020-21?
    (c) Which top 10 countries buy Non -Basmati rice from India?
    (d) What was the value of Basmati rice export from India?

    Answer: (a)

36. Which of the following countries imported rice from India for the first time?
    (a) Iraq
    (b) Bangladesh
    (c) Brazil
    (d) United Arab Emirates

    Answer: (c)

37. Which of the following countries imports Basmati rice from India?
    (a) Malaysia
    (b) Nepal
    (c) Bangladesh
    (d) Kuwait

    Answer: (d)

Passage — for questions 38–41

> Read the given passage and answer the questions that follow. As the Sun inches closer to its peak activity in its solar cycle, an explosion has been picked up behind the north-eastern limb of the star in our solar system. Solar observatories saw bits and pieces of the explosion, which remain obscured in view from Earth's orbit. The explosion was spotted on 31 July at around 2309 UT and Earth-orbiting satellites registered a long-lasting C9.3-class solar flare. "The intensity is probably an underestimate because it was partially eclipsed by the edge of the sun. Nasa's Solar Dynamics Observatory (SDO) saw hot debris flying away from the blast site," space weather, which tracks the solar activity, reported. While the explosion was powerful, experts have predicted that Earth is not in the line of fire from the Sun. Scientists are expected to get a view of the active region later this week as it comes to sight. Earth is not in the line of fire. The explosion is significant because it may herald an active region set to emerge over the sun's north-eastern limb later this week. A new sunspot group could bring an end to weeks of relative quiet," space weather said in its report.

38. Select the most appropriate synonym of the given word from the passage. Partially
    (a) Supportively
    (b) Partly
    (c) Frankly
    (d) Completely

    Answer: (b)

39. Select the most appropriate synonym of the given word from the passage. Debris
    (a) Detritus
    (b) Rays
    (c) Specks
    (d) Liquid

    Answer: (a)

40. Select the most appropriate synonym of the given word from the passage. Spotted
    (a) Witnessed
    (b) Speckled
    (c) Splotchy
    (d) Placed

    Answer: (a)

41. Select the most appropriate synonym of the given word from the passage. Peak

(a) Glance

(b) Point

(c) Bottom

(d) Zenith

Answer: (d)

Passage — for questions 42–43

> Read the following passage and answer the questions given after it. Tens of thousands of people who lost their homes in a catastrophic earthquake huddled around campfires in the bitter cold and clamoured for food and water on Thursday, three days after the temblor hit Turkey and Syria and killed more than 19,300 on Monday, 6th February, 2023. Emergency crews used pick axes, shovels and jackhammers to dig through twisted metal and concrete - and occasionally still pulled out survivors. In the Turkish city of Antakya, dozens scrambled for aid in front of a truck distributing children's coats and other supplies. Many of those who lost their homes found shelter in tents, stadiums and other temporary accommodation, but others slept outdoors. In Antakya, over 100 bodies were awaiting identification in a makeshift morgue outside a hospital. Authorities called off search-and-rescue operations in the cities of Kilis and Sanliurfa, where destruction was not as severe as in other impacted regions. The U.N. is authorised to deliver aid through only one border crossing, and road damage has prevented that thus far. U.N. Officials pleaded for humanitarian concerns to take precedence over wartime politics. The scale of loss and suffering remained massive. Turkish authorities said on Thursday that the death toll had risen to more than 16,100 in the country, with more than 64,000 injured. In Syria, which includes government-held and rebel-held areas, more than 3,100 have been reported dead and more than 5,000 injured. Rescue teams urged quiet in the hope of hearing stifled pleas for help, and the Syrian paramedic group known as the White Helmets noted that every second could mean saving a life. But more and more often, the teams pulled out dead bodies. It was not clear how many people were still unaccounted for in both countries. Turkey's disaster-management agency said more than 110,000 rescue personnel were taking part in the effort and more than 5,500 vehicles, including tractors, cranes, bulldozers and excavators had been shipped. The Foreign Ministry said 95 countries have offered help. More than half of that number have sent a total of nearly 6,500 rescuers. Another 2,400 more are still expected to arrive. International aid for Syria was far more sparse. Efforts there have been hampered by the civil war and the isolation of the rebel-held region along the border that is surrounded by Russia-backed government forces.

42. How many foreign rescue workers are engaged in the rescue work?

(a) 2400 rescue workers

(b) 110,000 rescue workers

(c) 5000 rescue workers

(d) 6500 rescue workers

Answer: (d)

43. Match the words with their meaning. Words meanings
a. clamoured 1. checked
b. scrambled 2. screamed
c. hampered 3. jostled

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

Answer: (a)

General Awareness

1.

Match the columns.

Nutrients	Examples
a. Protein	i. Calcium, Phosphorous
b. Carbohydrates	ii. Cholesterol
c. Fat	iii. Glucose
d. Minerals	iv. Myosin

(a) a-i, b-iii, c-ii, d-iv
(b) a-iii, b-iv, c-ii, d-i
(c) a-i, b-ii, c-iii, d-iv
(d) a-iv, b-iii, c-ii, d-i

Answer: (d)

2. In India, who appoints the Advocate General of a State?

(a) Governor of the State
(b) Prime Minister of India
(c) President of India
(d) Chief Minister of the State

Answer: (a)

3. When did the Constitution of WHO come into force - a date which we now celebrate as World Health Day every year?

(a) 5 April 1948
(b) 7 April 1948
(c) 6 April 1948
(d) 8 April 1948

Answer: (b)

4. India was named 'Bharat' after the name of the Bharat tribe. In which of the following Vedas is this tribe first mentioned?

(a) Rigveda

(b) Samaveda

(c) Atharvaveda

(d) Yajurveda

Answer: (a)

5. What do you call the drugs that bind to the receptor site and inhibit its natural function?

(a) Antidepressants

(b) Agonist

(c) Antagonists

(d) Depressants

Answer: (c)

6. Which of the following statements is/are CORRECT with respect to Draft Information Technology (Intermediary Guidelines and Digital Media Ethics Code) Rules, 2021, proposed in 2022?
A. Online games will have to register with a self-regulatory body, and only games cleared by the body will be allowed to legally operate in India.
B. Online gaming companies will not be allowed to engage in betting on the outcome of games, the proposed rules say.
C. According to the rules, there could be more than one self-regulatory body.

(a) A and B only

(b) A, B and C

(c) B and C only

(d) A and C only

Answer: (b)

7. When was the None of the Above (NOTA) ballot option first implemented in India?

(a) 2015

(b) 2004

(c) 2013

(d) 2010

Answer: (c)

8. Which of the following is/are one of the United Nations Sustainable Development Goals?
(A) Zero Hunger
(B) Climate Action
(C) Life Below Water
(D) Quality Education

(a) A, B, C and D

(b) A and B

(c) B and C

(d) A, C and D

Answer: (a)

9.

Match the columns.

Column-A	Column-B
i. Electric current	a. Henry
ii. Potential difference	b. Farad
iii. Capacitance	c. Volt
iv. Inductance	d. Ampere

(a) i-a, ii-b, iii-c, iv-d

(b) i-b, ii-a, iii-c, iv-d

(c) i-d, ii-c, iii-b, iv-a

(d) i-a, ii-c, iii-b, iv-d

Answer: (c)

10. The Supreme Court of India rejected the plea of _____ to quash the summons issued by the Delhi Legislative Assembly's Committee on Peace and Harmony for inquiry related to the Delhi riots in February 2020.

(a) Instagram

(b) Snapchat

(c) Facebook

(d) Twitter

Answer: (c)

11. Which crops are benefitted from the tem[illegible] clones arising from the Mediterranean Sea that cause rainfall in Punjab?

(a) Rabi crops

(b) Zaid crops

(c) Cash crops

(d) Kharif crops

Answer: (a)

12. The population of India is _____ according to Census 2011.

(a) 1.4 billion

(b) 1.21 billion

(c) 1.5 billion

(d) 1.11 billion

Answer: (b)

13. Which of the following statements are correct regarding the Supreme Court judgement on validity of 103rd Constitutional Amendment Act?
A. The Supreme Court of India's Constitutional Bench for this case consisted of 5 judges.
B. The Constitutional Bench upholds the 10% of EWS reservation with 3-2 majority.
C. As per the Supreme Court judgement, the 103rd Constitutional Amendment is valid although it is violating the Basic Structure of the Indian Constitution.

(a) A, B and C
(b) A and C only
(c) B and C only
(d) A and B only

Answer: (d)

14. Who found an empirical relationship between the half-life of alpha decay and the energy of the emitted alpha particles in 1911?

(a) Fermi and Meitner
(b) Geiger and Nuttall
(c) Chadwick and Lawrence
(d) Soddy and Aston

Answer: (b)

15. Nutritional care during illness is an organised group of activities which consists of all of the following, EXCEPT:

(a) assessing psychological stress
(b) assessing nutritional status
(c) planning and prioritising nutrition interventions to meet nutritional needs
(d) diagnosis of nutritional problems

Answer: (a)

16. Which of the following Articles mentions about a Uniform Civil Code throughout the territory of India?

(a) Article 44
(b) Article 39
(c) Article 40
(d) Article 50

Answer: (a)

17. Identify the correct statement.

(a) Newton is a unit of force.
(b) Newton is a unit of power.
(c) Joule is a unit of force.
(d) Joule is a unit of power.

Answer: (a)

18. Which of the following statements is/are correct regarding Government of India's New Integrated Food Security Scheme?
A. This New Integrated Food Security Scheme has been started from 1 January 2023.
B. The Government of India targeted to supply food grains to more than 80 crores beneficiaries under the National Food Security Act.
C. First time this food grains supply programme was brought under the Ministry of Social Justice for effective implementation.

(a) B and C only
(b) A and C only
(c) A, B and C
(d) A and B only

Answer: (d)

19.

Match the columns.

Slash and burn agriculture	Associated State
(A) Dahiya	(I) Jharkhand
(B) Kuruwa	(II) Odisha
(C) Bringa	(III) Andhra Pradesh
(D) Penda	(IV) Madhya Pradesh

(a) A-IV, B-II, C-I, D-III
(b) A-IV, B-III, C-I, D-II
(c) A-IV, B-I, C-II, D-III
(d) A-III, B-I, C-II, D-IV

Answer: (c)

20. The intervention of the government whether to expand demand or reduce it constitutes the _____.

(a) speculative function
(b) redistribution function
(c) stabilisation function
(d) transaction function

Answer: (c)

21. Who had assumed the title of Balban?

(a) Kabir Khan
(b) Farid Khan
(c) Ulugh Khan
(d) Ayaz Khan

Answer: (c)

22. In 1845, which German chemist published a method for the synthesis of acetic acid, a natural product containing two carbon atoms?

(a) Friedrich Wohler

(b) Marcellin Berthelot

(c) Joseph Gay-Lussac

(d) Hermann Kolbe

Answer: (d)

23. Assume that exchange rate between the US Dollar and Indian Rupee is $1= ₹55. Now if this exchange rate increases to $1 = ₹60, then in this case the Indian Rupee has ____ in comparison to the US dollar.

(a) depreciated

(b) appreciated

(c) Demonetised

(d) overvalued

Answer: (a)

25. In which year, the Koya rebellion took place in the eastern Godavari tract?

(a) 1882-1883

(b) 1874-1875

(c) 1879-1880

(d) 1887-1888

Answer: (c)

Computer Knowledge Module

1.

A _____ is a networking device that filters network traffic while connecting multiple computers or communicating devices.

(a)

router

(b)

gateway

(c)

switch

(d)

repeater

Answer: (c)

2.

Which of the following is not a LibreOffice Software Suite program?

(a)

LibreOffice Writer

(b)

LibreOffice Excel

(c)

LibreOffice Calc

(d)

LibreOffice Impress

Answer: (b)

3.

Which among the following is not a magnetic storage?

(a)

Winchester disk

(b)

Floppy Drive

(c)

Memory Card

(d)

Magnetic Tape

Answer: (c)

4.

Which among the following type of computer is also known as notebook?

(a)

Micro Computer

(b)

Multi Core

(c)

Work Station

(d)

Laptop Computer

Answer: (d)

5.

_____ is the bit-rate of available or consumed information capacity expressed typically in metric multiples of bits per second.

(a)
Frequency

(b)
Protocol

(c)
Speed

(d)
Bandwidth

Answer: (d)

6.

_____ holds address of the active memory location.

(a)
Stack pointer

(b)
Program Counter

(c)
Memory Address Register

(d)
Instruction Register

Answer: (c)

7.

Which of the following shortcut key is used to select all cells of the current row in MS-Excel 2010 worksheet?

(a)
Shift+Page down

(b)
Ctrl+Spacebar

(c)
Shift+Page up

(d)
Shift+Spacebar

Answer: (d)

8.

_____ records everything you type on your PC in order to obtain your log-in name, passwords and other sensitive information.

(a)
Virus

(b)
Keyloggers

(c)
Worms

(d)
Ransomware

Answer: (b)

9.

Crypto Locker is a form of which of the following?

(a)
Ransomware

(b)
Adware

(c)
Spyware

(d)
Worms

Answer: (a)

10.

Which of the following is a web browser created and developed by Microsoft?

(a)
Opera

(b)
Chrome

(c)
Edge

(d)
Brave

Answer: (c)

12.

Consider the following statements regarding line spacing of a paragraph in MS-Word 2010:

P: Line spacing determines the amount of vertical space between lines of text in a paragraph.

Q: Line spacing determines the amount of diagonal space between lines of text in a paragraph

Which of the following statement(s) is/are correct?

(a)

Only P

(b)

Both P and Q

(c)

Neither P nor Q

(d)

Only Q

Answer: (a)

13.

Which one of the following folders is used to store deleted emails?

(a)

Trash

(b)

Spam

(c)

Inbox

(d)

Drafts

Answer: (a)

15.

_____ displays a list of utility configure the computer system and install software and hardware.

(a)
Run

(b)
Control Panel

(c)
Taskbar

(d)
Help and Support

Answer: (b)

16.

_____ was the first browser to display images inline with text instead of displaying images in a separate window.

(a)
Mozilla

(b)
Mosaic

(c)
Lynx

(d)
Opera

Answer: (b)

17.

_____ are a set of wires, which carries a group of bits in parallel and has an associated control scheme. It provides a communication path between two or more devices of a computer system.

(a)
Buses

(b)
Control Unit

(c)
Register

(d)
Cache

Answer: (a)

18.

What will the function given below return in MS-Excel 2010?

=MATCH(12,{10,13,30,40,60},1)

(a)

0

(b)

1

(c)

#N/A

(d)

2

Answer: (b)

19.

Which among the following statements is incorrect for input devices?

(a)

Input devices are also called as peripheral device.

(b)

Input devices accepts user data.

(c)

Input devices helps computer in [illegible] data.

(d)

Optical Mark Reader is an input device.

Answer: (a)

Answer key

Answer key as marked in the Staff Selection Commission's response sheet. "—" means the sheet did not show it clearly.

Mathematical Abilities

1	**(c)**	2	**(d)**	3	**(d)**	4	**(a)**	6	**(c)**	7	**(b)**	8	**(c)**	9	**(c)**
10	**(a)**	11	**(c)**	12	**(d)**	13	**(a)**	14	**(a)**	15	**(a)**	16	**(d)**	17	**(b)**
18	**(c)**	19	**(a)**	20	**(a)**	21	**(a)**	22	**(c)**	23	**(b)**	24	**(c)**	26	**(c)**
27	**(d)**	28	**(a)**	29	**(c)**										

Reasoning and General Intelligence

1	**(b)**	2	**(a)**	3	**(b)**	4	**(c)**	5	**(b)**	6	**(b)**	7	**(a)**	8	**(a)**
9	**(c)**	10	**(b)**	11	**(b)**	13	**(d)**	14	**(a)**	15	**(d)**	16	**(a)**	18	**(a)**
19	**(c)**	20	**(c)**	21	**(d)**	22	**(a)**	23	**(d)**	24	**(c)**	25	**(b)**	26	**(a)**
27	**(a)**	28	**(d)**	29	**(a)**	30	**(a)**								

English Language and Comprehension

1	**(b)**	2	**(b)**	4	**(b)**	5	**(b)**	6	**(c)**	7	**(c)**	9	**(c)**	10	**(a)**
11	**(c)**	12	**(a)**	13	**(d)**	14	**(d)**	15	**(a)**	16	**(b)**	17	**(d)**	18	**(b)**
19	**(d)**	20	**(b)**	21	**(c)**	22	**(c)**	23	**(b)**	24	**(d)**	25	**(c)**	26	**(a)**
27	**(d)**	28	**(d)**	29	**(d)**	30	**(d)**	31	**(c)**	32	**(c)**	33	**(b)**	34	**(c)**
35	**(a)**	36	**(c)**	37	**(d)**	38	**(b)**	[illegible]	**(a)**	40	**(a)**	41	**(d)**	42	**(d)**
43	**(a)**														

General Awareness

1	**(d)**	2	**(a)**	3	**(b)**	4	**(a)**	5	**(c)**	6	**(b)**	7	**(c)**	8	**(a)**
9	**(c)**	10	**(c)**	11	**(a)**	12	**(b)**	13	**(d)**	14	**(b)**	15	**(a)**	16	**(a)**
17	**(a)**	18	**(d)**	19	**(c)**	20	**(c)**	21	**(c)**	22	**(d)**	23	**(a)**	25	**(c)**

Computer Knowledge Module

1	**(c)**	2	**(b)**	3	**(c)**	4	**(d)**	5	**(d)**	6	**(c)**	7	**(d)**	8	**(b)**
9	**(a)**	10	**(c)**	12	**(a)**	13	**(a)**	15	**(b)**	16	**(b)**	17	**(a)**	18	**(b)**
19	**(a)**														