PREVIOUS YEAR PAPER

SSC CGL 2020 Tier I — 16 August 2021, Shift 2

SSC CGL · 16 August 2021 · 12:00 PM - 1:00 PM

85 of the paper's 100 questions · +2 for a correct answer, −0.5 for a wrong one · 60 minutes

Left out of the original paper: 15 (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 16 August 2021, 12:00 PM - 1:00 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-2020-tier-1-16-aug-shift-2/

General Intelligence and Reasoning

1. Select the option in which the words share the same relationship as that shared by the given pair of words. Raj Ghat : Mahatma Gandhi

(a) Veer Bhoomi : Indira Gandhi

(b) Shakti Sthal : Sanjay Gandhi

(c) Vijay Ghat : Lal Bahadur Shastri

(d) Shanti Vana : Rajiv Gandhi

Answer: (c)

2. 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 follows from the statements. Statements: All computers are laptops. All hard disks are pen drives. No pen drive is a keyboard. No computer is a hard disk. Conclusions:
I. Some pen drives are not laptops.
II. No keyboard is a computer.
III. No hard disk is a laptop.
IV. All pen drives are not keyboards.

(a) Only conclusion I follows

(b) Only conclusion IV follows

(c) Only conclusion II follows

(d) Only conclusion III follows

Answer: (b)

3. Introducing Rajat to a guest, Ajay said, "He is the only son of my father's daughter-in law". How is Ajay related to Rajat?

(a) Maternal grandfather

(b) Either father or uncle

(c) Paternal grandfather

(d) Brother

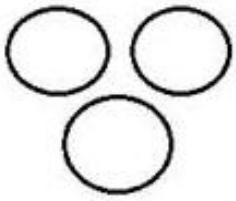
Answer: (b)

4.

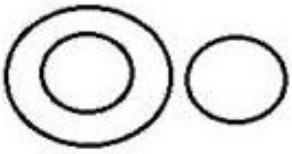
Select the Venn diagram that best illustrates the relationship among the following classes.

Whisk, Utensil, Sickle

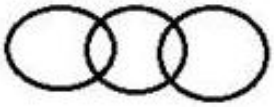
(a)



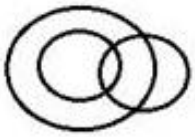
(b)



(c)



(d)



Answer: (b)

5. Study the given pattern carefully and select the number that can replace the question mark (?) in it. 22 32 7 18 24 5 32 40 ?

(a) 12

(b) 4

(c) 8

(d) 10

Answer: (c)

6. Select the letter from among the given options that can replace the question mark (?) in the following series. B, E, G, J, L, ?

(a) P

(b) O

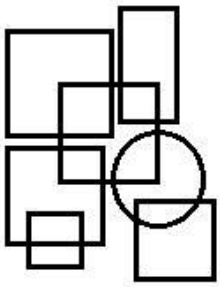
(c) N

(d) Q

Answer: (b)

7.

Find the number of squares in the given figure. (Rectangles NOT to be included)



(a)
9
(b)
7
(c)
5
(d)
16

Answer: (b)

8. Select the letter-cluster from among the given opt s that can replace the question mark (?) in the following series. GCB, JHE, MMH, PRK, ?

(a) SXM
(b) RVM
(c) TXO
(d) SWN

Answer: (d)

9. Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

(a) Yowl
(b) Prowl
(c) Growl
(d) Howl

Answer: (b)

10. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number. 15 : 135 :: 16 : ? :: 18 : 189

(a) 131

(b) 121

(c) 152

(d) 141

Answer: (c)

11. Select the number from among the given options that can replace the question mark (?) in the following series. 5, 13, 22, 34, 51, 75, 108, 152, ?

(a) 290

(b) 230

(c) 209

(d) 203

Answer: (c)

12. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

(a) 324 : 64

(b) 169 : 55

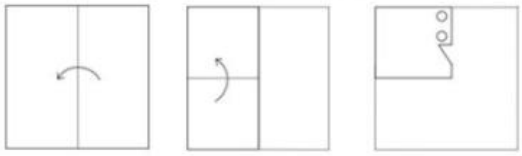
(c) 289 : 70

(d) 256 : 61

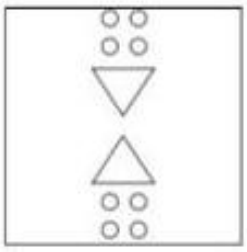
Answer: (a)

14.

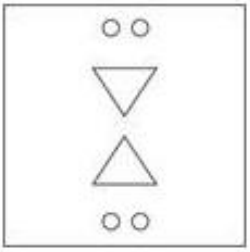
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



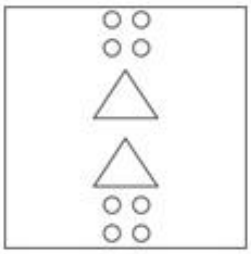
(a)



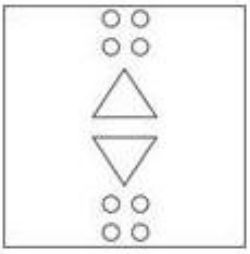
(b)



(c)



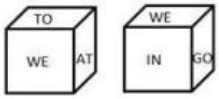
(d)



Answer: (a)

15.

Two different positions of the same dice are shown, the six faces of which are marked as 'AT', 'IN', 'SO', 'WE', 'GO' and 'TO'. Select the word that will be on the face opposite to the face showing the word 'TO'.



(a)

AT

(b)

SO

(c)

GO

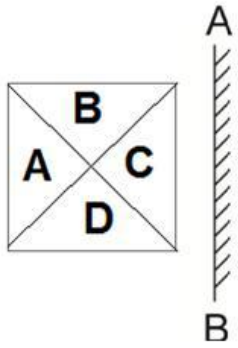
(d)

IN

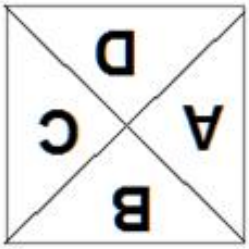
Answer: (c)

16.

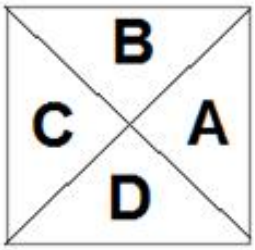
Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.



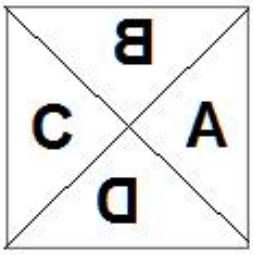
(a)



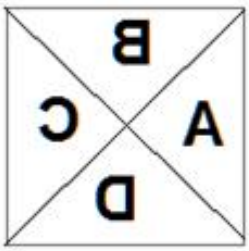
(b)



(c)



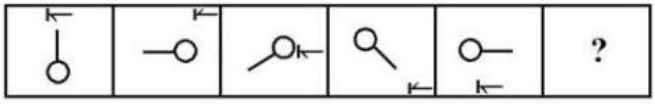
(d)



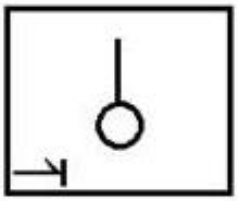
Answer: (d)

17.

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

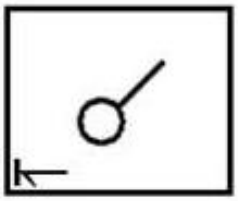


(a)

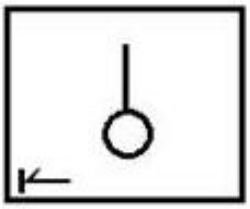


(b)

(c)



(d)



Answer: (d)

18. Study the given pattern carefully and select the number that can replace the question mark (?) in it. 6 11 14 8 3 ? 62 47 89

(a) 5

(b) 6

(c) 4

(d) 15

Answer: (a)

19. Select the correct sequence of mathematical signs that can sequentially replace the * signs and balance the given equation. 6 * 10 * 55 * 162 * 9 = 23

(a) ×, −, +, ÷

(b) ÷, +, ×, −

(c) ×, ÷, −, +

(d) +, −, ÷, ×

Answer: (a)

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

(a) BTGN

(b) FJQL

(c) EMNK

(d) IDWG

Answer: (b)

21. In a certain code language, 'ALPINE' is coded as '171' and 'SPRING' is coded as '83'. How will 'CAPITAL' be coded in that language?

(a) 93

(b) 124

(c) 186

(d) 62

Answer: (c)

22. Select the option that is related to the third word in the same way as the second word is related to the first word. Chicken : Flock :: Bear : ?

(a) Clutter

(b) Drove

(c) Sleuth

(d) Ambush

Answer: (c)

23. The present age of a father is three times that of his elder son. Four years hence, the age of the father will be four times that of his younger son. If the difference between the present ages of the elder and younger child is 6 years, what is the present age of the father?

(a) 36 years

(b) 38 years

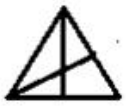
(c) 42 years

(d) 32 years

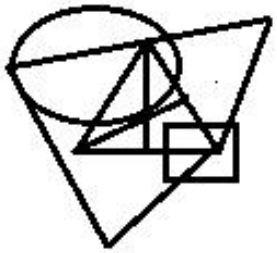
Answer: (a)

24.

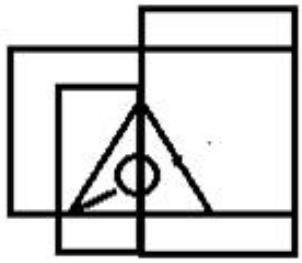
Select the option in which the given figure is embedded (rotation is NOT allowed).



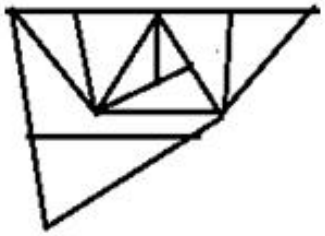
(a)



(b)



(c)



(d)

Answer: (a)

25. In a certain code language, 'MORBID' is written as 'THGMID'. How will 'OBTAIN' be written in that language?

(a) JOFGSD

(b) JGOFDS

(c) GJFOSD

(d) GFOJDS

Answer: (c)

General Awareness

2. Who among the following was the first Vice President of India?
   (a) Zakir Hussain
   (b) Gopal Swarup Pathak
   (c) Varahagiri Venkata Giri
   (d) Sarvepalli Radhakrishnan

   Answer: (d)

3. The _____ rate measures rising prices in everything except food and energy.
   (a) stagflation
   (b) wage inflation
   (c) deflation
   (d) core inflation

   Answer: (d)

4. What is the name of the river formed by the confluence of Sankh River and South Koel River at Vedvyas in Odisha?
   (a) Brahmani
   (b) Pennar
   (c) Subarnarekha
   (d) Sabarmati

   Answer: (a)

5. How many people were awarded the Padma Vibhushan in January 2021?
   (a) 4
   (b) 10
   (c) 7
   (d) 29

   Answer: (c)

6. Which of the following is also called 'green algae'?
   (a) Porphyridium
   (b) Chlorophyceae
   (c) Rhodophyceae
   (d) Phaeophyceae

   Answer: (b)

7. Which of the following nations is NOT a part of the Quad Group?
   (a) India
   (b) Canada
   (c) Australia
   (d) Japan

   Answer: (b)

8. In which of the following years was the origin and enactment of the Indian Age of Consent Act passed?

(a) 1901

(b) 1834

(c) 1891

(d) 1889

Answer: (c)

10. Of the known elements in the periodic table, only _____ are gases under normal atmospheric conditions.

(a) 11

(b) 12

(c) 13

(d) 10

Answer: (a)

11. _____ is a branch of biology that studies fungi.

(a) Morphology

(b) Kalology

(c) Mycology

(d) Virology

Answer: (c)

12. Who among the following was the Australian Op 2020 women's singles winner?

(a) Garbine Muguruza

(b) Simona Halep

(c) Serena Williams

(d) Sofia Kenin

Answer: (d)

13. In which Indian state will you find the Borail Wildlife Sanctuary?

(a) Odisha

(b) Assam

(c) West Bengal

(d) Karnataka

Answer: (b)

14. Who is the ex-officio President of the Indian Parliamentary Group (IPG), set up in 1949, which functions as the national group of the Inter-Parliamentary Union (IPU) and the main branch of the Commonwealth Parliamentary Association (CPA) in India?

(a) Prime Minister

(b) Speaker of the Lok Sabha

(c) Vice President

(d) President

Answer: (b)

15. Which of the following countries' former Prime Minister was awarded with the Padma Vibhushan award in 2021?

(a) Bangladesh

(b) Nepal

(c) Japan

(d) Sri Lanka

Answer: (c)

16. _____ organised his trusted nobles into a group of forty known as Turkan-i-Chahalgani.

(a) Ala-ud-Din Khilji

(b) Balban

(c) Iltutmish

(d) Qutub-Ud-Din Aibak

Answer: (c)

17. In which state is Ponu Yoksi, a sword-like instrument, used during ceremonial dances performed by priests?

(a) Arunachal Pradesh

(b) Uttar Pradesh

(c) Madhya Pradesh

(d) Himachal Pradesh

Answer: (a)

18. _____ is a practice of establishing and managing individual trees generally for amenity purposes.

(a) Floriculture

(b) Viniculture

(c) Silviculture

(d) Arboriculture

Answer: (d)

19. When is the Hindi Diwas observed annually?

(a) 14 March

(b) 14 September

(c) 2 October

(d) 6 April

Answer: (b)

20. In February 2021, the Defence Ministry of India awarded a contract to manufacture 83 Light Combat Aircraft (LCA) Tejas fighters to _____.

(a) Hindustan Aeronautics Limited

(b) Bharat Dynamics Limited

(c) Defence Research and Development Organisation

(d) Bharat Electronics Limited

Answer: (a)

21. Which of the following is one of the metals used in LED semiconductor technology?
    (a) Iron
    (b) Copper
    (c) Zinc
    (d) Gallium
    Answer: (d)

22. The elements of the groups 3 to 12 are called _____ elements or transition elements.
    (a) b-block
    (b) a-block
    (c) d-block
    (d) c-block
    Answer: (c)

23. Where is the headquarters of International Hockey Federation (FIH) located?
    (a) Nepal
    (b) Switzerland
    (c) Bhutan
    (d) Australia
    Answer: (b)

24. Who among the following had written the book 'C' Chaman', during the reign of Shah Jahan, describing the Mughal nobility?
    (a) Abu'l Dazl
    (b) Chandrabhan Brahman
    (c) Gulbadan Begum
    (d) Muhammad Waris
    Answer: (b)

25. The place of Gautama Buddha's birth was a grove known as _____.
    (a) Lumbini
    (b) Mawphlang
    (c) Mangar Bani
    (d) Kavus
    Answer: (a)

Quantitative Aptitude

2.

If $a - \frac{12}{a} = 1$, where $a > 0$, then the value of $a^2 + \frac{16}{a^2}$ is:

(a)

15

(b)

17

(c)

19

(d)

11

Answer: (b)

3.

Table shows income (in ₹) received by 4 employees of a company during the month of December 2020 and all their income sources.

Source	Amit	Suresh	Nitin	Varun
Salary	35000	38500	29000	42000
Arrears	6000	6300	5000	7500
Bonus	1000	1100	1000	1240
Overtime	1800	1950	1400	1500

By what percent is the bonus of Varun less than the bonus of Amit and Niti[illegible]en together?

(a)

45

(b)

48

(c)

40.9

(d)

38

Answer: (d)

6.

The value of $3\frac{5}{6}+\left[3\frac{2}{3}+\left\{\frac{15}{4}\left(5\frac{4}{5}\div 14\frac{1}{2}\right)\right\}\right]$ is equal to:

(a)
6
(b)
7
(c)
9
(d)
8

Answer: (c)

8.

In a triangle ABC, point D lies on AB, and points E and F lie on BC such that DF is parallel to AC and DE is parallel to AF. If BE = 4 cm, CF = 3 cm, then find the length (in cm) of EF.

(a)
5
(b)
3
(c)
2
(d)
1.5

Answer: (c)

9.

A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 4 days B had to leave. Then A working with a new worker C completed the remaining work in 3 days. If C works alone, in how many days he can do 40% of the same work?

(a)
9
(b)
$8\frac{1}{2}$
(c)
8
(d)
10

Answer: (a)

13.

Table shows the number of trees planted in 4 cities from 2016 to 2020.

Years	Chandigarh	Ahmadabad	Pune	Kolkata
2016	1800	2500	1800	2000
2017	2500	2300	1850	1800
2018	2300	2400	1840	1760
2019	2440	1950	1900	1600
2020	2250	2100	2000	1750

In which year were the maximum number of trees planted?

(a)
2016

(b)
2020

(c)
2017

(d)
2018

Answer: (c)

14.

Chamanlal, Arshad and Jagjit Singh contested an election. All the [illegible] ed were valid. Arshad got 35% of the total votes. For every 35 votes Chamanlal got 14 votes. The winner got 4950 more votes than the person who received the least number of votes. Find the total number of votes polled.

(a)
99000

(b)
33000

(c)
13378

(d)
38000

Answer: (b)

16.

Three shopkeepers A, B and C marked an identical article at ₹4820. A, B and C sold their article on successive discounts of 20% and 20%; 25% and 15%; 30% and 10% respectively. Which shopkeeper gives the maximum discount and how much (in Rs)?

(a)

C,1780

(b)

C,1783.40

(c)

B, 1800

(d)

A,1735.20

Answer: (b)

17.

Hridaya opened her piggy bank and found coins of denomination ₹1, ₹2, ₹5 and ₹ 10 in the ratio 10 : 5 : 2 : 1. If there are 72 coins in all, then how much money (in ₹) was there in the piggy bank in the form of coins?

(a)

100

(b)

72

(c)

160

(d)

90

Answer: (c)

18.

A sum at a certain rate of simple interest becomes ₹14880 after 3 years and ₹16800 after 5 years. Find the simple interest on the same sum at 10% per annum for 4 years (in ₹).

(a)

5184

(b)

4860

(c)

4800

(d)

4740

Answer: (c)

19.

From an external point A, two tangents AB and AC have been drawn to a circle touching the circle at B and C respectively. P and Q are points on AB and AC respectively such that PQ touches the circle at R. If AB = 11 cm, AP = 7 cm and AQ = 9 cm, then find the length of PQ (in cm).

(a)
7

(b)
5

(c)
8

(d)
6

Answer: (d)

22.

A heap of wheat is in the form of a cone whose base diameter is 8.4 m and height is 1.75 m. The heap is to be covered by canvass. What is the area (in m^2) of the canvas required? $\left(\text{Use } \pi = \frac{22}{7}\right)$

(a)
60.06

(b)
60.6

(c)
115.05

(d)
115.5

Answer: (a)

24.

If $\left(16\sqrt{2}x^3 + 81\sqrt{3}y^3\right) \div \left(2\sqrt{2}x + 3\sqrt{3}y\right) = Ax^2 + By^2 + Cxy$, then find the value of $2A - 3B - 2\sqrt{6}C$.

(a)
25

(b)
7

(c)
137

(d)
79

Answer: (b)

25.

Radha purchased a Computer table for ₹10000 and a Centre table for ₹5000. She sold Computer table with 8% profit. With what profit percent should she sell the Centre table so as to gain 10% on the whole transaction?

(a) 12%

(b) 10%

(c) 14%

(d) 18%

Answer: (c)

English Comprehension

1. The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options. “Would you liked / to have / some fries / along with your coffee, / sir?” / asked the waiter.

(a) Would you liked

(b) some fries

(c) asked the waiter

(d) along with your coffee

Answer: (a)

2. Select the most appropriate synonym of the [illegible] word. Rejuvenate

(a) Reset

(b) Retell

(c) Retake

(d) Refresh

Answer: (d)

3. Select the INCORRECTLY spelt word.

(a) Pessymist

(b) Optimist

(c) Perfectionist

(d) Fatalist

Answer: (a)

4. Select the option that can be used as a one-word substitute for the given group of words. A large bedroom for a number of people in a school or institution.

(a) Assembly
(b) Creche
(c) Hostel
(d) Dormitory

Answer: (d)

5. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The supervisor / wanted to known / the pros and cons / of the issue.

(a) the pros and cons
(b) The supervisor
(c) wanted to known
(d) of the issue

Answer: (c)

6. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Sholay <u>is one in the most popular</u> Hindi movies.

(a) is one in the more popular
(b) No substitution
(c) is in the most popular
(d) is one of the most popular

Answer: (d)

7. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

Much of the truth about the mysterious death of her pet <u>was not revealed.</u>

(a) were not being revealed
(b) have not revealed
(c) No substitution
(d) were not revealed

Answer: (c)

8. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
A. This awareness has motivated everyone to go for physical exercises.
B. These days people are more aware of their health.
C. In addition to physical exercises, some prefer taking health supplements too.
D. It is advisable, but one should consult a trainer/doctor before consuming health supplements.

(a) ADBC
(b) DBCA
(c) BACD
(d) BADC

Answer: (c)

9. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
A. There are many secondary reasons as well along with increasing levels of carbon.
B. The term is used to describe the unnatural rise in earth's average temperature.
C. Increased carbon dioxide is the primary driver of global warming.
D. Global warming is the single biggest threat to life on earth today.

(a) DABC
(b) DBCA
(c) ACBD
(d) ABCD

Answer: (b)

10. Select the option that expresses the given sentence in indirect speech. The teacher said, "Man is mortal."

(a) The teacher instructed that man was mortal.
(b) The teacher said that man is mortal.
(c) The teacher said that man was mortal.
(d) The teacher said that men were mortal.

Answer: (b)

11. Select the most appropriate synonym of the given word. Chaos

(a) Fusion
(b) Confusion
(c) Tension
(d) Dirt

Answer: (b)

12. Select the most appropriate option to fill in the blank. The jungle was nearly _____, so the progress was slow.

(a) immortal
(b) immaterial
(c) immobile
(d) impenetrable

Answer: (d)

13. Select the INCORRECTLY spelt word.
    (a) Recluse
    (b) Profuse
    (c) Virtuous
    (d) Luxuriaus

    Answer: (d)

14. Select the most appropriate option to fill in the blank. I read some _____ of properties for sale on the Internet before I called the agent.
    (a) spaces
    (b) descriptions
    (c) monologues
    (d) arguments

    Answer: (b)

15. Select the most appropriate meaning of the following idiom. To the nines
    (a) To be jealous
    (b) To perfection
    (c) To great depths
    (d) To be exalted

    Answer: (b)

16. Select the option that can be used as a one-word substitute for the given group of words. A group of people, typically with vehicles or animals, travelling together.
    (a) Caravan
    (b) Circus
    (c) Troop
    (d) Gang

    Answer: (a)

17. Select the most appropriate ANTONYM of the given word. Harmony
    (a) Amity
    (b) Concord
    (c) Accord
    (d) Conflict

    Answer: (d)

18. Select the most appropriate ANTONYM of the given word. Elated
    (a) Excited
    (b) Thrilled
    (c) Depressed
    (d) Proud

    Answer: (c)

20. Select the most appropriate meaning of the following idiom. Apple of one's eye
    (a) Someone very precious or dear
    (b) Someone with great respect
    (c) Someone who behaves courteously
    (d) Someone who plays all sports

    Answer: (a)

Passage — for questions 21–25

> In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.
>
> It is essential to form a link between formal education and skill (1)_____. Multidisciplinary and personality enhancement skills are the (2)_____ requirements of every sector. Many reforms are being (3)_____ in higher education to co-relate academics to the (4)_____ of various service sectors. Innovative models can help to (5)_____ the varied needs of skilled and unskilled labour.

21. Select the most appropriate option to fill in blank no.1.
    (a) maturity
    (b) development
    (c) ripening
    (d) progress

    Answer: (b)

22. Select the most appropriate option to fill in blank no.2.
    (a) domestic
    (b) external
    (c) essential
    (d) needless

    Answer: (c)

23. Select the most appropriate option to fill in blank no.3.
    (a) improved
    (b) introduced
    (c) related
    (d) settled

    Answer: (b)

24. Select the most appropriate option to fill in blank no.4.
    (a) urgency
    (b) charge
    (c) duty
    (d) need

    Answer: (d)

25. Select the most appropriate option to fill in blank no.5.
    (a) met
    (b) meets
    (c) meet
    (d) meeting
    Answer: (c)

Answer key

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

General Intelligence and Reasoning

1	**(c)**	2	**(b)**	3	**(b)**	4	**(b)**	5	**(c)**	6	**(b)**	7	**(b)**	8	**(d)**
9	**(b)**	10	**(c)**	11	**(c)**	12	**(a)**	14	**(a)**	15	**(c)**	16	**(d)**	17	**(d)**
18	**(a)**	19	**(a)**	20	**(b)**	21	**(c)**	22	**(c)**	23	**(a)**	24	**(a)**	25	**(c)**

General Awareness

2	**(d)**	3	**(d)**	4	**(a)**	5	**(c)**	6	**(b)**	7	**(b)**	8	**(c)**	10	**(a)**
11	**(c)**	12	**(d)**	13	**(b)**	14	**(b)**	15	**(c)**	16	**(c)**	17	**(a)**	18	**(d)**
19	**(b)**	20	**(a)**	21	**(d)**	22	**(c)**	23	**(b)**	24	**(b)**	25	**(a)**		

Quantitative Aptitude

2	**(b)**	3	**(d)**	6	**(c)**	8	**(c)**	9	**(a)**	13	**(c)**	14	**(b)**	16	**(b)**
17	**(c)**	18	**(c)**	19	**(d)**	22	**(a)**	24	**(b)**	25	**(c)**				

English Comprehension

1	**(a)**	2	**(d)**	3	**(a)**	4	**(d)**	5	**(c)**	6	**(d)**	7	**(c)**	8	**(c)**
9	**(b)**	10	**(b)**	11	**(b)**	12	**(d)**	13	**(d)**	14	**(b)**	15	**(b)**	16	**(a)**
17	**(d)**	18	**(c)**	20	**(a)**	21	**(b)**	[illegible]	**(c)**	23	**(b)**	24	**(d)**	25	**(c)**