

SSC CGL 2021 Tier 1 11th April 2022 (Shift 3)



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SHIFT-III

REASONING

1. Which two signs should be interchanged to make the given equation correct? $32 + 24 \times 4 \div 16 - 64 = 90$ A. + and \times B. + and -C. \div and +D. \div and \times Ans. (b) 2. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different. A. RCN B. UFQ C. YJB D. EPA Ans. (c) 3. If 90% of a number is 621, what will be 50% of 20% of that number?

A. 79

- B. 54
- C. 74
- D. 69
- Ans. (d)

4. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

5gsdfncK 2 d s d f n c K A

- 5gsqfncK_{.a}
- 5gsdfucK_{..}

5gsdfncK_{.d}

Ans. (d)

5. In a certain code language, 'do or die' is written as 'su ru ko', 'let us do it' is written as 'ko mo yo zu' and 'this or that' is written as 'ga tu ru'. How will 'die' be written in that language? A. su B. ru C. ku D. ko Ans. (a) 6. 'A % B' means 'A is the sister of B'. 'A % B' 'A, B' 'A \$ B' means 'A is the brother of B'. `A \$ B' `A, B' 'A @ B' means 'A is the son of B'. `A @ B' `A, B' 'A & B' means 'A is the mother of B'. `A & B' `A, B' If `R % T & Z \$ S @ V @ C % Y', then which of the following statements is NOT correct? A. C is the paternal grandmother of Z. B. V is the father of Z. C. T is the daughter of C. D. T is the mother of S. Ans. (c) 7. In a certain code language, 'SANCTION' is written as 'TZOBUHPM'. How will 'TELEVISE' be written in that language? A. UDNDWGTF **B. SFKGUHRD** C. UDMDUHTF D. UDMDWHTD

Ans. (d)

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8. Reeta is standing facing south-east. First, she turns 135° clockwise. After that, turns 90° anticlockwise. Then

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pg. 2



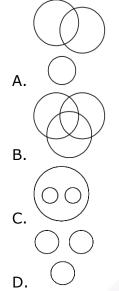
she turns 45° clockwise, followed by a 135° anticlockwise turn. In which direction is she facting now?

A. East

- B. North East
- C. South-East
- D. South
- Ans. (a)

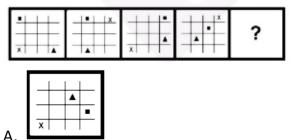
9. Select the Venn diagram that best represents the relationship between the following.

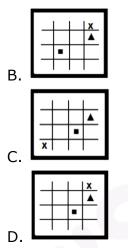
Doctors, Married, Females





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



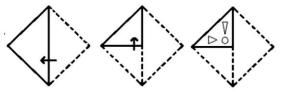


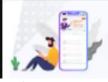
Ans. (c)

11. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

- 1. Junketeered
- 2. Junction
- 3. Junketers
- 4. Junketeering
- 5. Junctures
- A. 2, 5, 4, 3, 1
- B. 1, 4, 2, 3, 5
- C. 2, 5, 1, 4, 3
- D. 2, 5, 3, 1, 4
- Ans. (c)

12. 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?



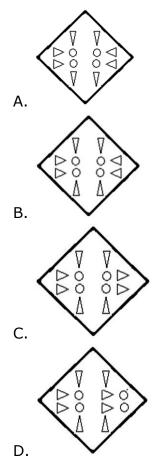


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Ans. (b)

13. Six houses, A, B, C, D, E and F, are situated in a colony. D is 60 m south of E. F is 40 m south of B. A is 30 m north of E. F is 50 m east of A. C is 50 m west of B. Find the location of C with reference to A.

A. 30 m east

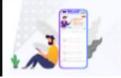
- B. 50 m north
- C. 40 m north
- D. 40 m south

Ans. (c)

14. Study the given matrix carefully and select the number from among the given options that can replace the question mark (?) in it.

6 18 42

5 15 ?



D. 4 Ans. (c)

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15. Select the number from among the given options that can replace the question mark (?) in the following series.
17, 16, 32, 29, 116, ?
A. 121
B. 111
C. 71
D. 81
Ans. (b)

16. Select the option in which the two numbers are related in the same way as are the two number of the following number- pair.

14:450

7

A. 30 B. 53 C. 25 D. 45

Ans. (a)

36 61

- A. 31 : 961
- B. 30 : 902 C. 22 : 490
- D. 18 : 722
- Ans. (d)

17. A cube is made by folding the given sheet. In the cube so formed, which number will be on the face opposite to the face having the number '1'?

			5
6	1	4	2
		3	

А.	6
В.	3
C.	2
D.	4
An	s. (c



18. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PDK: QFN:: SJQ:?

A. ULS

B. TLT

C. TMS

D. UNT

Ans. (b)

19. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some printers are coolers.

No cooler is a telephone.

All machines are telephones.

Conclusions:

I. Some printers are machines.

II. No machine is a cooler.

A. Only conclusion II follows

B. Only conclusion I follows

C. Neither conclusion I nor II follows

D. Both the conclusions follow

Ans. (a)

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

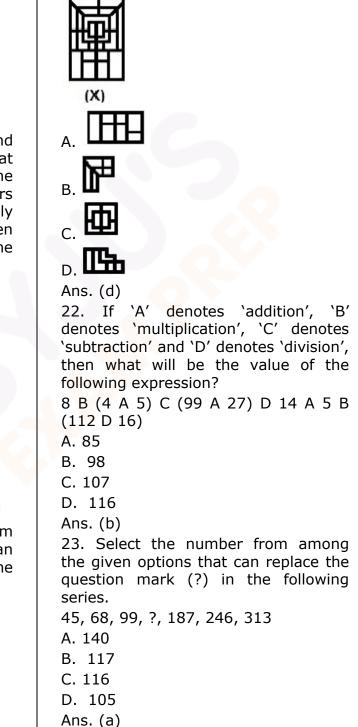
KMTC, EVOM, OQXG, IZSQ, ?

- A. SUCL
- B. SVCK

C. TVBK

- D. SUBK
- Ans. (d)

21. Select the option that is embedded in the given figure (X) (rotation is NOT allowed).





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24. In a certain code language, B. Container-Based sanitation 'TURKEY' is written as '76911525'. C. Community-led total sanitation How will 'BREATH' be written in that D. Dry sanitation language? Ans. (b) A. 218526208 4. Who among the following is the B. 259221208 author of the book 'Social Harmony'? C. 259221197 A. H.D. Deve Gowda D. 251841208 B. P.V. Narsimha Rao Ans. (b) C. Narendra Modi 25. Select the combination of letters D. Manmohan Singh that when sequentially placed in the Ans. (c) blanks of the given series, will 5. The number of deaths during the complete the series. first 28 completed days of life per SP___PSTS___SPS_ 1000 live births in a given year or A. PSSPPSS period is defined as _____. B. TSSPTSS A. neonatal mortality rate C. STSPSTT B. age-specific mortality rate D. PSTSPTT C. crude mortality rate Ans. (c) D. infant mortality rate GENERAL AWARENESS Ans. (a) 1. _____ is the first woman hockey 6. As per the Union Budget 2021-22, player to receive the Rajiv Gandhi the government plans to continue on Khel Ratna Award. the path of fiscal consolidation, A. Rani Rampal achieving a fiscal deficit level below 4.5% of GDP by _____. B. Vandana Katariya C. Nikki Pradhan A. 2023-24 D. Sharmila Devi B. 2022-23 C. 2024-25 Ans. (a) 2. In which of the following Indian D. 2025-26 states will you find the Buxa Fort? Ans. (d) A. Odisha 7. Odisha has set _____ as the B. Karnataka target year for providing 100% functional household tap water C. West Bengal connections in every rural household. D. Tamil Nadu A. 2023-24 Ans. (b) B. 2024-25 3. refers to a sanitation C. 2025-26 system in which toilets collect human D. 2022-23 sealable, removable excreta in cartridges that are transported to Ans. (a) treatment facilities. A. Ecological sanitation

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8. Justice NV Ramana, appointed as Ans. (a) the 48th Chief Justice of India, hails 13. How many female members were from which of the following states? part of the Constituent Assembly that framed the Constitution of India? A. Karnataka B. Maharashtra A. 12 C. Kerala B. 10 D. Andhra Pradesh C. 14 D. 15 Ans. (d) 9. Why is water fluoridation, which is Ans. (d) the controlled adjustment of fluoride 14. The pilgrimage sites of Nasik, to public water supply, done? Triyambak and Bhadrachalam lie on the banks of which of the following A. To prevent tooth decay rivers? B. To prevent eye disease A. Krishna C. To prevent bone disease B. Godavari D. To prevent vitamin deficiency C. Narmada Ans. (a) D. Brahmaputra 10. As per the Economic Survey 2020-21, net FPI (Foreign Portfolio Ans. (b) Investment) recorded an all-time 15. Which of the following is an monthly high of US\$9.8 billion in example of monosaccharides? 1. Fructose A. October 2020 2. Sucrose B. December 2020 3. Starch C. September 2020 4. Glucose D. November 2020 A. Only 2 Ans. (d) B. Both 1 and 4 11. Which of the following cities will be C. Both 2 and 3 known as 'the sports city of India' D. Only 3 from February 2021? Ans. (b) 16. The efforts of Siddhendra Yogi A. Gurugram have brought glory to the dance form B. Hyderabad called _____. C. Ahmedabad A. Bharatanatyam D. Bengaluru B. Mohiniyattam Ans. (c) C. Kuchipudi 12. Which bank is referred to as 'The D. Kathakali lender of last resort'? Ans. (c) A. Central Bank 17. Α tank is an B. State Bank underground chamber made of C. Dena Bank concrete, fiberglass, or plastic through D. World Bank SSC Success Batch A comprehensive 10 Months START FREE TRIAL Foundation Course (English Batch)



which domestic wastewater (sewage) III. Mt. Kilimanjaro in South America flows for basic treatment. is an example of Volcanic Mountain A. Only I and II A. soap B. pressure B. Only II C. flush C. I, II and III D. septic D. Only I Ans. (d) Ans. (a) 22. The Right of Children to Free and 18. The idea of having a provision for Bicameral Parliament in the Compulsory Education Act 2009 is an а Constitution of India was borrowed Act of Parliament which came into force in: from the _____ Constitution. A. French A. 2012 B. Canadian B. 2011 C. British C. 2009 D. Irish D. 2010 Ans. (c) Ans. (d) 19. Splashing the mud and racing 23. conferred the was honorary rank of General of the Nepali across the fields, the roaring buffalos raced by a man are typical sights for Army in November 2020. which of the following festivals of A. Air Chief Marshal RKS Bhadauria Karnataka? B. General MM Naravane A. Mahamastakabhisheka C. General Bipin Rawat B. Pattadakal D. Admiral Karambir Singh C. Kambala Ans. (b) D. Karaga 24. Which two kings fought in the Ans. (c) Battle of Hydaspes? 20. Poor sanitation conditions may A. Chandragupta and Dhana Nanda NOT be the likely reason behind which B. Alexander and Porus of the following diseasesconditions? C. Ashoka and Mahapadmanabha A. Typhoid D. Mihirakula and Yasodharman B. Cholera Ans. (b) C. Arthritis 25. Under which of the following rulers D. Polio did Delhi first became a capital? Ans. (c) A. Chauhans of Aimer 21. Which of the following statements B. Iltutmish Dynasty isare correct regarding the mountains? C. Khilji Dynasty I. Mountains may be arranged in a line D. Tomara Rajputs known as range. Ans. (d) II. The Aravali range in India is one of MATHS the oldest fold mountain systems in

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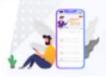
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the world.



1. Performance of 1800 students in 12 11.5 grades has been shown in the 12 10.5 10 10 following pie chart. Population (in Lakhs) 10 In which two grades taken together is Youth the number of students 54 less than Employed the number of students in grades B vouth and E taken together? С D Grade A States 30% A. D Grade C 24% B. B Grade B 27% C. E D. A A. C and E Ans. (a) B. B and D 4. If $x=4+\sqrt{15}$, what is the value of C. A and E 1 D. C and D Ans. (a) A. 48 2. The average of 52, 71, 43, 22, a, and b is 55 and the average of 42, 45, B. 54 49, 51, 42, c, and d is 53. What is the C. 72 average of a, b, c and d? D. 62 A. 54.7 Ans. (d) B. 71 5. A person sold an article at a loss of C. 54 18%. Had he sold it for Rs 960 more, D. 142 he would have gained 12%. If the article is sold for Rs 3840, then how Ans. (b) much is the profit percentage? 3. The following bar graph shows the A. 15% total number of youth (in lakhs) and B. 24% the numbers of employed youth (in lakhs) in 5 states A, B, C, D and E. C. 20% Which state has the maximum number D. 21% of unemployed youth? Ans. (c) 6. In \Box LMN, the bisectors of \Box L and $\Box N$ intersect at an angle of 112°. What is the measure (in degrees) of $\square M?$ A. 62 B. 60 C. 44 D. 72 SSC Success Batch



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Ans. (c) 7. A boatman can row his boat in still water at a speed of 9 kmh. He can also row 44 km downstream and 35 km upstream in 9 hours. How much time (in hours) will he take to row 33 km downstream and 28 km upstream? A. 7 B. 5 C. 6 D. 8 Ans. (a) 8. In □ACD, B and E are two point on side AC and AD respectively, such that BE is parallel to CD. = 9 cm, BE = 6 cm, AB = 5 cm and ED = 2cm. What are the measure of the lengths (in cm) of AE and BC? A. 4, 2.5 B. 3, 4 C. 4, 3 D. 2.5, 4 Ans. (a) 9. A kite is attached to a string. Find the length of the string (in m) when the height of the kite is 90m and the string makes an angle of 30° with the ground. A. 180 B. $90\sqrt{3}$ C. 45 D. $60\sqrt{3}$ Ans. (a) 10. The reduction of 15% in the price of salt enables a person to buy 2 kg more for Rs. 272. The reduced price of salt per kg (in Rs) is: A. 20.40 B. 22.16 C. 24.25 D. 25.00	Ans. (a) 11. If p is the third proportional to 8,20 and q is the fourth proportional ot 3, 5, 24, then find the value of (2p + q). A. 140 B. 126 C. 90 D. 104 Ans. (a) 12. A sum of money was borrowed and paid back in two equal annual installments of Rs. 980, allowing 4% compound interest. The sum (in Rs, to the nearest tens) borrowed was: A. 1850 B. 1960 C. 1760 D. 2050 Ans. (a) 13. Two circles touch each other externally at T. RS is a direct common tangent to the two circles touching the circles at P and Q. \Box TPQ = 42°. \Box PQT (in degrees) is: A. 48 B. 45 C. 42 D. 60 Ans. (a) 14. If sec A = $\frac{17}{8}$, given that A < 90°, what is the value of the following $\frac{34\sin A+15\cot A}{68\cos A-16\tan A}$? A. 23 B. 19 C. 30 D. 38 Ans. (b)
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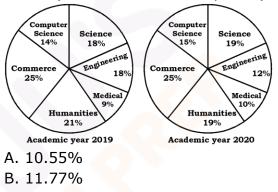
pg. 10



15. AB is the diameter of a circle with centre. O. C and D are two points on the circumference of the circle on either side of AB, such that $\Box CAB =$ 42° and $\Box ABD = 57^{\circ}$. What is difference (in degrees) between the measures of \Box CAD and \Box CBD? A. 105 and 75 B. 75 and 105 C. 81 and 99 D. 99 and 81 Ans. (b) 16. If $a^2 + b^2 + c^2 = 6.25$ and (ab + bc + ca) = 0.52, what is the value of (a + b + c), if (a + b + c) < 0? A. ±2.7 B. -2.7 C. -2.8 D. ±2.8 Ans. (b) 17. What is the greatest number by which when 156, 181 and 331 are divided, the remainder is 6 in each case? A. 26 B. 17 C. 25 D. 13 Ans. (c) 18. A can finish a piece of work in 48 days and B can finish it in 60 days. The work together for 12 days and then A goes away. In how much time (in days and hours) will B finish 25% of the remaining work? A. 6 days 4 hours B. 8 days 8 hours C. 6 days 6 hours D. 8 days 6 hours Ans. (d)

19. The following pie-charts show that number of students studying in different departments of an institute during the academic years 2019 and 2020. The total number of students was 2000 and 2400 in academic years 2019 and 2020, respectively.

What is the percentage increase or decrease in the number of students of Engineering in 2020 as compared to 2019? (correct to 2 decimal places)



C. 10.77%

D. 10.25%

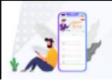
Ans. (c)

20. A 35 cm high bucket in the form for a frustum is full of water. Radii of its lower and upper ends are 12 cm and 18 cm, respectively. If water from this bucket is poured in a cylindrical drum, whose base radius is 20 cm, then what will be the height of water (in cm) in the drum?

- A. 16.25
- B. 18.25
- C. 19.95
- D. 20.50
- Ans. (c)

21. Study the given histogram that shows the height (in cm) of 100 students in an athletic team and answer the question that follows.

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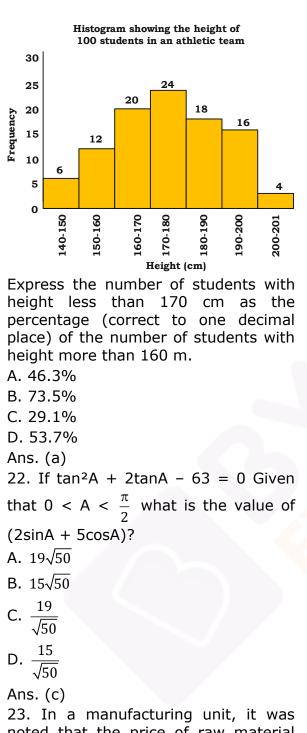


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pg. 11





23. In a manufacturing unit, it was noted that the price of raw material has increased by 25% and the labour cost has gone up from 30% of the cost of raw material to 38% of the cost of the raw material. What percentage of the consumption of raw

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material be reduced to keep the cost the same as the before the increase? A. 20.7% B. 30.2% C. 24.6% D. 25.5% Ans. (c) 24. If the 7-digit number x8942y4 is divisible by 56, what is the value of $(x^{2} + y)$ for the largest value of y, where x and y are natural numbers? A. 33 B. 44 C. 55 D. 70 Ans. (c) 25. Simplify the following expression: $\frac{5\frac{1}{3} \div 1\frac{1}{3} \times 5\frac{1}{4} - 5\frac{1}{2}}{1\frac{1}{2} \times 1\frac{2}{3} - 6\frac{1}{2}} \div 7 \times 2$ B. $29\frac{9}{32}$ C. $-1\frac{5}{14}$ D. $-\frac{5}{28}$ Ans. (c) ENGLISH 1. Select the option that expresses the given sentence in active voice. How many candidates had been interviewed by him before lunch? A. How many candidates has he interviewed before lunch? How many candidates B. did he interview before lunch? C. How many candidates had he interviewed before lunch?

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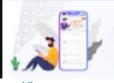


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D. How many candidates was he The recently hike in the price of interviewing before lunch? petroleum products will hit household budgets severely. Ans. (c) A. will hit 2. Select the most appropriate synonym of the given word. B. The recently hike C. household budgets severely Smooth D. in the price of petroleum products A. Flat B. Uneven Ans. (b) C. Rough 6. Select the most appropriate option to fill in the blank. D. Broken Their idea of a holiday _____ at a Ans. (a) luxury resort. 3. Select the most appropriate option A. is relax that can substitute the underlined segment in the given sentence. If B. is relaxed there is no need to substitute it, select C. is to relaxing 'No substitution required'. D. is relaxing The student <u>apologised the teacher</u> for Ans. (d) in submitting the delay the 7. Given below are four jumbled assignment. sentences. Select the option that gives A. No substitution required their correct order. B. is apologising the teacher 1. Our amusements have little zest if C. apologised to the teacher we engage in them in solitude. D. has apologised the teacher 2. Friendship increases happiness and Ans. (c) diminishes misery. 4. Select the option that expresses the 3. It doubles our joys and divides our given sentence in indirect speech. grief. She said, "The stars are shining 4. When we do well, it is delightful to brightly tonight." have friends who are pleased with our success. A. She said the stars are shining A. 2341 brightly tonight. B. 1243 B. She said that the stars were shining brightly that night. C. 3214 C. She said the stars were shining D. 4132 brightly tonight. Ans. (a) D. She asked if the stars were shining 8. The following sentence has been brightly that night. split into four segments. Identify the Ans. (b) segment that contains a grammatical 5. The following sentence has been error. split into four segments. Identify the Your name precedes before mine in segment that contains a grammatical the admission list.

A. Your name



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error.



B. in the C. precedes before mine D. admission list Ans. (c) 9. Select the option that gives the most appropriate meaning of the underlined idiom. I am working on too many projects. I think I have bitten off more than I can chew. A. Not able to finish work B. To take on more than one can handle C. To be happy to multitask D. To find work dull Ans. (b) 10. Select the most appropriate synonym of the given word. Imminent A. Unyielding B. Ignorant C. Impending D. Distant Ans. (c) 11. Select the option that can be used as a one-word substitute for the given group of words. A sound that cannot be heard A. Inedible B. Inaudible C. Indelible D. Audible Ans. (b) 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'. Computer crime have been in the news since the nineteen eighties.

B. has been on the news since

C. has been in the news since

D. No substitution required

Ans. (c)

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

A glass container to keep fish

A. Aquarium

B. Atrium

C. Beaker

D. Vase

Ans. (a)

14. Select the option that expresses the given sentence in active voice.

Trumpets are being blown by the soldiers to announce the victory.

A. The soldiers were blowing the trumpets to announce the victory.

B. The soldiers blow the trumpets to announce the victory.

C. The soldiers are blowing the trumpets to announce the victory.

D. The soldiers blew the trumpets to announce the victory.

Ans. (c)

15. Select the option that gives the most appropriate meaning of the underlined idiom.

It is good to <u>take into account</u> all the important factors before making a decision.

A. leave

B. select

C. control

D. consider

Ans. (d)

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

A. has been in the news from



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No sooner did the child start crying In the following passage, some words have been deleted. Read the passage then the mother hugged him. carefullv and select the most A. No sooner did appropriate option to fill in each blank. B. then the mother How should one read a story to a C. hugged him child? Usually, a personality or Ans. (b) character of the story (1) D. the child start crying _____ the child's interest the most. Select the most appropriate 17. _____ (2) _____, use different ANTONYM of the given word. (3) voices each Camaraderie character or act out various A. Dislike (4) _____ from the story, to bring life to those characters. (5)B. Amity ____ out parts from the story will C. Companionship story sessions fun make and D. Friendship memorable for the kids. Ans. (a) 21. Select the most appropriate option 18. Select the most appropriate to fill in blank number 1. ANTONYM of the given word. A. caught Criticise B. catch A. Disappoint C. catches B. Forgive D. has caught C. Prevent Ans. (c) D. Praise 22. Select the most appropriate option Ans. (d) to fill in blank number 2. 19. The following sentence has been A. Either split into four segments. Identify the B. So segment that contains a grammatical C. Also error. D. However It is not worth having the trouble to Ans. (b) write to him as he never replies. 23. Select the most appropriate option A. as he never replies to fill in blank number 3. B. to write to him A. for C. It is not worth B. by D. having the trouble C. with Ans. (d) D. from 20. Select the correctly spelt word. Ans. (a) A. Weird 24. Select the most appropriate option B. Cansel to fill in blank number 4. C. Recieive A. pages D. Prepair B. sheets Ans. (a)

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C. partsD. wordsAns. (c)25. Select the most appropriate option to fill in blank number 5.A. SayingB. Acting

- C. Telling
- D. Asking

Ans. (b)



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