SSC COMBINED GRADUATE LEVEL (CGL) TIER-I EXAM, (SECOND SITTING) 09-08-2015) – PREVIOUS YEAR PAPER

GENERAL AWARENESS

1. Which of the following can be found as pollutants in the drinking water in some parts of India?
   Select the correct answer using the code given below.
   (A) Arsenic
   (B) Sorbitol
   (C)Fluoride
   (D) Formaldehyde
   (E) Uranium
   (1) B, D and E
   (2) A, B, C, D and E
   (3) A, C and E
   (4) A and C

   Solution:3

2. Cyanide poisoning causes death in seconds because
   (1) It denatures enzymes of the heart/muscle
   (2)It breaks the electron transport chain
   (3)It causes Lys is of red blood cells.
   (4) It causes cardiac arrest

   Solution:4

3. Xenobiotics which are inherently resistant to microbial attack are called as:
   (1) Biodegradable
   (2) Persistent
   (3) All of the given options
   (4) Recalcitrant

   Solution:4

4. The Battle of Plessey was fought in year
   (1) 1775
   (2) 1757
   (3) 1761

(4) 1576

Solution:2

5. Who discovered the first antibiotic ?
(1) W Fleming
(2) C Waksman
(3) Louis Pasteur
(4) A Fleming

Solution:4

6. Indian first talkie film produced in 1931 was
(1) Shakuntala
(2) Indra Sabha
(3) Neel Kemal
(4) Alamara

Solution:4

7. State Bank of India was previously known as :
(1) Imperial Bank of India
(2) Canara Bank
(3) Syndicate Bank
(4) Co-operative Bank of India

Solution:1

8. On 2nd June 2015 a Conference on Make in India Indigenisation of currency was organised by the department of Economic Affairs, Ministry of Finance, Govt. of India. Who inaugurated the Conference ?
(1) Finance Minister
(2) Finance Secretary
(3) Governor R.B.I.
(4) Prime Minister

Solution:1

9. The ore of Aluminium is
(1) Fluorspar
(2) Bauxite
(3) Chalco pyrites
(4) Hematite

Solution:2

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10. In the grass lands, trees do not replace the grasses as a part of an ecological succession because of
(1)Limited sun light and paucity of nutrients
(2) None of the options
(3) Insect and fungi
(4) Water limits and fire

Solution:4

11. The Mediterranean region are characterized by heavy rain in:
(1) Winter
(2) Spring
(3) Autumn
(4) Summer

Solution:1

12. Earthquakes are caused by
(1) Denudation
(2) Tectonism
(3) Earth revolution
(4) Earth rotation

Solution:2

13. The oldest form of composition of Hindustani vocal music is
(1) Dhurpad
(2) Thumri
(3) Ghazal
(4) None of the options

Solution:1

14. The Women's Reservation Bill seeks how much reservation for women in the State assemblies and Lok Sabha ?
(1) 30%
(2) 25%
(3) 33%
(4) 36%

Solution:3

15. The Dynamo converts
(1)Electrical Energy intoMechanical Energy
(2) Mechanical Energy into Magnetic Energy

(3) None of these
(4) Mechanical Energy into Electrical Energy

Solution:4

16. When is International 'Yoga Divas' is celebrated ?
(1) 21 June
(2) 21 May
(3) 25 April
(4) 21 July

Solution:1

17. Which was the first hydel power project in India ?
(1)Pallivasal in Kerala
(2) Paikara in Tamil Nadu
(3) Siva Samudram in Karnataka
(4) Nizamnagar in Andhra Pradesh

Solution:3

18. Microbial Type Culture Collection Centre is situated at:
(1) Bangalore
(2) Chandigarh
(3) New Delhi
(4) Hyderabad

Solution:2

19. Mahatma Gandhi began his political activities in India first from :
(1) Dandi
(2) Kheda
(3) Sabarmati
(4) Champaran

Solution:4

20. Raga Kameghwari was composed by
(1)Ustad Amzad Ali Khan
(2) None of the options
(3) Pandit Ravi Shankar
(4) Uday Shankar

Solution:3

21. The father of computer is

(1) Oliver Twist
(2) Charles Dickens
(3) Charles Babbage
(4) Love Lice

Solution:3

22. In which year did Dada Saheb Phalke produce the first feature film ?
(1)1911
(2) 1913
(3) 1910
(4) 1912

Solution:2

23. The earth completes one rotation on its axis in :
(1) 23 hrs. 56 min. 4.9 sec
(2) 23 hrs. 10 min. 2 sec
(3) 23 hrs. 30 min.
(4) 24 hrs.

Solution:1

24. What is the fascist view of state ?
(1) State enhances the ideal of individualism
(2) Nation state is unquestionably sovereign
(3) State is the instrument of exploitation in the hands of few.
(4) State is under the control of a king

Solution:2

25. The Environment (Protection) Bill was passed by the Parliament of India in –
(1) 1984
(2) 1972
(3) 1986
(4) 1981

Solution:3

26. "Don't Laugh : We are Police", this book was compiled by
(1) Shanti Swaroop I.G.
(2) None of the options
(3) Bishan Lal Vohra L G. P
(4) K.P.S. Gill D.G.P

Solution:3

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27. What is ordinary Law ?
(1) Laws made by the High Court
(2)Laws made by the Supreme Court
(3) Laws made and enforced by the Government
(4)Laws made by the common people.

Solution:3

28. For a missile launched with a velocity less than the earth's escape velocity, the total energy is
(1) either positive of negative
(2) Negative
(3) Zero
(4) Positive

Solution:2

29. Molybdenum deficiency affects the activity of :
(1) All of the given options
(2) Chlorate reductase
(3) Nitrogenase
(4) Nitrate reductase

Solution:4

30. Waksman got the Nobel Prize for the discovery of :
(1) Streptomycin
(2) Chloromycetin
(3) Neomycin
(4) Penicillin

Solution:1

31. The business in Stock Markets and other securities markets is regulated
(1) Securities and Exchange Board of India
(2) Sole Trade and Exchange Bank of India
(3) State and Exchange Bank of India
(4) Stock and Exchange Bank of India

Solution:1

32. Liberalism stands for
(1) religious orthodoxy
(2) a movement and an attitude
(3) self-emancipation

(4) freedom in social, political and economic aspects

Solution:4

33. Heavy metals got their name because compared to other atoms they have
(1) Higher densities
(2) Higher atomic masses
(3) Higher atomic numbers
(4) Higher atomic radii

Solution:2

34. Photo chemical smog is a resultant of the reaction among
(1) High concentration of NO , o_3, and CO in the evening
(2) CO, CO, and NO_2 at low temperature.
(3) CO, o_2 and peroxy acetyl nitrate in the presence of Sunlight
(4) NO_2, o_3 and peroxy acetyl nitrate in the presence of Sunlight

Solution:4

35. The Liquidity Preference Theory of Interest was propounded by :
(1) J.M. Keynes
(2) David Ricardo
(3) Alfred Marshall
(4) Adam Smith

Solution:1

36. Which of the following costs is related to marginal cost?
(1) Variable Cost
(2) Implicit Cost
(3) Prime Cost
(4) Fixed Cost

Solution:1

37. Fascism believes in the application of the principle of :
(1) Dictatorship
(2) Democracy
(3) Utilitarianism
(4) Totalitarianism

Solution:4

38. Autocracy means
(1) Rule by few

(2) Rule by King
(3) Absolute rule by one
(4) Rule by the representatives of the People

Solution:3

39. When a helium atom loses an electron it becomes :
(1) A negative helium ion
(2) A proton
(3) An alpha particle
(4) A positive helium ion

Solution:4

40. When one gene pair hides the effect of the other unit, the phenomenon is referred to as:
(1) Epistasis
(2) Mutation
(3) None of the options
(4) Dominance

Solution:1

41. The classical Dance of Andhra Pradesh is
(1) Kuchipudi
(2) Odissi
(3) Bharatanatyam
(4) Kathakali

Solution:1

42. Who directed the film on the dacoit queen Phoolan Devi ?
(1) Abbas Mastan
(2) Shashi Kapoor
(3) Shekhar Kapoor
(4) Anil Kapoor

Solution:3

43. PSW stands for
(1) Program status word
(2) Processor status word
(3) Process status word
(4) Primitive status word

Solution:1

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44. The name of the upper house of the Indian Parliament is :
(1) Senate
(2) Rajya Sabha
(3) House of Lords
(4) Legislative Assembly

Solution:2

45. G E F, an international aid giving agency has the full form
(1) Global Environment Fund
(2) Global Educational Fund
(3) Global Economic Fund
(4) Global Energy Fund

Solution:1

46. Spring tides occur on
(1) New moon day only
(2) Full moon day as well as on new moon day
(3) Full moon day only
(4) The day when the moon's position is in its first quarter

Solution:2

47. Which one of the following is the correct sequence of ecosystem in the order of decreasing productivity?
(1) Oceans, mangroves, lakes, grassland
(2) Mangroves, oceans, grassland, lakes
(3) Oceans, lakes, grassland, mangroves
(4) Mangroves, grasslands, lakes, oceans

Solution:4

48. Who is considered founder of the Gupta Empire ?
(1) Srigupta
(2) Samudra Gupta
(3) Chandra Gupta I
(4) Chandra Gupta II

Solution:1

49. A Fuse wire is characterised by
(1) High resistance and low melting point –
(2) High resistance and high melting point
(3) Low resistance and high melting point

(4) Low resistance and low melting point

Solution:4

50. The technology used in the electronic printer is called
(1) Micro array
(2) Micro millimetric
(3) Micro technology
(4) Micro encapsulation

Solution:4

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ENGLISH COMPREHENSION

Directions (1-5) : In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

The public distribution system, which provides food at low prices, is a subject of vital concern. There is a growing realization that though India has enough food to feed its masses two square meals a day, the monster of starvation and food insecurity continues to haunt the poor in our country.

Increasing the purchasing power of the poor through providing productive employment leading to rising income, and thus good standard of living is the ultimate objective of public policy. However, till then, there is a need to provide assured supply of food through a restructured, more efficient and decentralized public distribution system (PDS). Although the PDS is extensive – it is one of the largest such systems in the world- it hasn't reached the rural poor and the remote places. It remains an urban phenomenon, with the majority of the rural poor still out of its reach due to lack of economic and physical access. The poorest in the cities and the migrants are left out, for they generally do not possess ration cards. The allocation of PDS supplies in big cities is larger than in rural areas. In view of such deficiencies in the system, the PDS urgently needs to be streamlined. Also, considering the large foodgrain production combined with food subsidy on one hand and the continuing slow starvation and dismal poverty of rural population on the other, there is a strong case for making PDS target-group oriented. By making PDS taiget-group oriented, not only the poorest and the neediest would be reached without additional cost but we can also reduce the overall costs incurred.

1. Which of the following is true of public distribution system?
   (1) It has remained effective only in the cities.
   (2) It is unique in the world because of its effectiveness
   (3) It has reached the remotest corner of the country.
   (4) It has improved its effectivenes over the years.

   Solution:1

2. The full form of PDS is
   (1) Private distribution system
   (2) Partial distribution system
   (3) Public distribution system
   (4) Party distribution system

   Solution:3

3. What according to the passage, would be the rationale of making the PDS target-group oriented?
(1) It will remove poverty.
(2) It will motivate the target-group population to work more.
(3) It will give food to the poorest section without additional cost.
(4) It will abolish the imbalance of urban and rural sectors.

Solution:3

4. The public distribution system, which provides food at..... is a subject of vital concern.
(1) low prices
(2) high prices
(3) as per capita income
(4) fair prices

Solution:1

5. What should be an appropriate step to make the PDS effective?
(1) To reduce administrative cost.
(2)To decrease the allotment of food grains.
(3) To make it target-group oriented.
(4) To increase the amount of foodgrain per ration card.

Solution:3

Directions (6-8) : In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

6. **PLEBISCITE**
(1) Referendum
(2) Reservation
(3) Representation
(4) Renunciation

Solution:1

7. **FRUGAL**
(1) Plain
(2) Simple
(3) Miserly
(4) Economical

Solution:4

8. **DIMINISH**

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(1) Prohibit
(2) Worsen
(3) Reduce
(4) Shorten

Solution:3

Directions (9-18) : In the following questions, a sentence/ part of the sentence is printed in **bold**. Below are given alternatives to the **bold** sentence/ part of the sentence at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

9. We do not believe **in a dual** policy of the company.
(1) in this dual
(2)in these dual
(3) on these dual
(4) No improvement

Solution:1

10. This news is **too good to be true**.
(1) cannot be true
(2) so good that it should be true
(3) No improvement
(4) so good that it cannot be true

Solution:4

11. The notorious criminal **went to the police to go to prison.**
(1) **submitted to the police**
(2) surrendered himself before the police
(3) No improvement
(4) gave himself tip for the police

Solution:2

12. If he has time he **will** telephone.
(1) could
(2) might
(3) would
(4) No improvement

Solution:4

13. He met **European lady at the conference who works for an NGO.**
(1) European lady who works for an NGO at the conference

(2) No improvement
(3)a European lady who works for an NGO, at the conference
(4) an European lady at the conference who works for an NGO

Solution:3

14. **I did not see** you for a long time.
(1) have not seen
(2) saw
(3) No improvement
(4) have not been seeing

Solution:1

15. The glass figurine **that was being shown** in the store window appealed to me.
(1) No improvement
(2) that was on display
(3) that was exhibited
(4) that was advertised

Solution:2

16. He is **somehow** tall for his age.,
(1) No improvement
(2) rather
(3) many
(4) much

Solution:2

17. The practice of **starving the children** in order to cure diarrhoea also aggravates the situation.
(1) starving child
(2) No improvement
(3) starve children
(4) starving children

Solution:2

18. She said that she was glad **to be here** that evening.
(1) to ome here
(2) to be there
(3) to have been here
(4) No improvement

Solution:2

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Directions (19-23) : In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is (4) i.e. No error.

19. You are required to give an explanation for your conduct within two days of the receipt of this letter.
(1) No error
(2) for your conduct
(3) within two days of the receipt of this letter.
(4)You are required to give an

Solution:3

20. The ruins of the spillway are a vital clue to the epic struggle that unfold as generations of Khmer engineers coped with a water system that grew complex and unruly.
(1) coped with a water system that grew complex and unruly.
(2) to the epic struggle that unfold as generations of Khmer engineers
(3) The ruins of the spillway are a vital clue
(4)No error

Solution:2

21. Bobby learnt the alphabets at the age of two.
(1)No error
(2) age of two
(3) Bobby learnt the
(4) alphabets at the

Solution:4

22. Thesum, and substance of this poem is as follows.
(1) of this poem
(2) No error
(3) The sum and substance
(4) is as follows

Solution:2

23. I watched how the pianoist used her left hand.
(1) I watched how
(2) the pianoist
(3)No error
(4) used her left hand

Solution:2

Directions (24-30) : In the following questions, out of the four alternatives, choose the one which can be substituted,: for the given words/sentence.

24. One who does not believe in the existence of God
(1) Atheist
(2) Theist
(3) Mystic
(4) Cynic

Solution:1

25. To free someone from all blames
(1) Consolidate
(2) Fling
(3) Forbid
(4) Exonerate

Solution:4

26. That which cannot be effaced
(1) Illegible
(2) Indelible
(3) Invincible
(4) Affable

Solution:2

27. A person who deliberately sets fire to a building
(1) Arsonist
(2) Extortionist
(3) Hijacker
(4) Assassin

Solution:1

28. One who makes an official examination of accounts
(1) Auditor
(2) Registrar
(3) Creditor
(4) Chartered Accountant

Solution:1

29. Conferred as an honor

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(1) Honorary
(2) Honorable
(3) Honorarium
(4) Honorific

Solution:1

30. The burial of a corpse
(1) Internment
(2) Interment
(3) Interrogate
(4) Interpose

Solution:2

Directions (31-35) : In the following questions, four alternatives are given for the Idiom/ Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

31. He's as daft as a brush. Don't believe a word of what he says.
(1) a liar
(2) very funny
(3) really silly
(4) unreliable

Solution:3

32. I hope you will back me at the meeting.
(1) criticise
(2) speak after I do
(3) follow
(4) support

Solution:4

33. A closefisted man does not know the significance of human life.
(1) a poor man
(2) a rich man
(3) a miser
(4) an ill-mannered man

Solution:3

34. I shall always remember my alma mater with gratitude.
(1) Institution where I got education
(2) teacher who inspired me

(3) mother's loving care
(4) kindergarten days

Solution:1

35. I and my friend always go Dutch when we eat out.
(1) drive together
(2) pay for each other's meal
(3) go together
(4) divide the costs

Solution:4

Directions (36-40) : In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

36. She pipped her rival..... the gold medal
(1) with
(2) for
(3) to
(4) near

Solution:2

37. Work should be guided by some..... desire of altruism and .....
(1) genuine ; philanthropy
(2) false ; honesty
(3) shallow ; ability
(4) good ; liberty

Solution:1

38. Ships are..... by giant engines.
(1) dragged
(2) sailed
(3) pulled
(4) driven

Solution:2

39. Krisda's stories .....me very strangely.
(1) effected
(2) affected
(3) changed
(4) afflicted

Solution:2

40. By morning, the fury of the floods .....
(1) ebbed
(2) receded
(3) retired
(4) abated

Solution:4

Directions (41-43) : In the following questions, choose the word opposite in meaning to the given word.

41. URBANE
(1) Loud
(2) Native
(3) Crude
(4) Rural

Solution:3

42. BOLD
(1) Timid
(2) Nervous
(3) Coy
(4) Fearful

Solution:1

43. AUTHENTIC
(1) Genuine
(2) False
(3) Factual
(4) Real

Solution:2

Directions (44-48) : In the following questions, you have a brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

The desert floras shame us with their cheerful adaptations to the seasonal limitations. Their whole duty is to flower and fruit, and they do it hardly, or with tropical luxuriance, as the rain admits. It is recorded in the report of the Death Valley expedition that after a year of abundant rains, on the Colorado desert was found a specimen of Amaranthus ten feet high. A year later the same species in the

same place matured in the drought at four inches. Seldom does the desert herb attain the full stature of the type. Extreme aridity and extreme altitude have the same dwarfing effect, so that we find in the high Sierras and in Death Valley related species in miniature that reach a comely growth in mean temperatures. Very fertile are the desert plants in expedients to prevent evaporation, turning their foliage edgewise toward the sun, growing silky hairs, exuding thick gum. The wind, which has a long sweep, harries and helps them. It rolls up dunes about the stocky stems, encompassing and protective, and above the dunes, which may be, as with the mesquite, three times as high as a man, the blossoming twigs flourish and bear fruit.

44. What lesson do the desert floras have to teach us ?
(1) how to live a long time
(2) how to adapt to limitations
(3) how to grow with grace.
(4) how to grow in dry places.

Solution:2

45. How does the wind keep the desert floras to grow?
(1) by blowing the heat away
(2) by rolling up protective sand dunes.
(3) by blowing gently
(4)by blowing the clouds away

Solution:2

46. The desert plants face the danger of from extreme aridity and extreme altitude.
(1) early death
(2) loss of reproduction
(3) painful growth
(4) dwarfism

Solution:4

47. The mesquite is a
(1) a tribe of people
(2) a type of desert animal
(3) a sand dune
(4) a desert flora

Solution:4

48. What stops the desert floras performing their duty well ?
(1) the desert sand

(2) the rain
(3)the people who pluck them
(4) the sesert animals

Solution:2

Directions (49-50) : In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

49. (1) coherant
(2) commendation
(3) tommorow
(4) advicable

Solution:2

50. (1) aneurysm
(2) annonymous
(3) disipate
(4) carcas

Solution:1

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GENERAL INTELLIGENCE & REASONING

1. Which single letter can be prefixed to the following words in order to obtain entirely new words? (Same letter has to be prefixed in all the five words of each.)
EAT OUR IS AS AT
(1) H
(2) S
(3) C
(4)B

Solution:1
(1) HEAT
HOUR
HIS
HAS
HAT

2. Which one of the areas marked I – VII represents the urban educated who are not hardworking ?
(1) I
(2) III
(3) IV
(4) II

Solution:3
(3) The urban educated people who are not hardworking can be represented by the area common to the triangle and the circle but outside the square. Such area is marked `IV'.

Directions (3-4) : In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

3. 1, 2, 2, 4, 3, 8, 7, 10, ?
(1) 11
(2) 13
(3) 9
(4) 8

Solution:1

3. (1) There are two alternating series :

4. 0, 7, 26, 63, ?
(1) 123
(2) 87
(3) 96
(4) 124

Solution:4

4. (4)

5. **Directions :** If you start running from a point towards North and after covering 4 kms. you turn to your left and run 5 kms. and then again turn to your left and run 5 kms. and then turn to left again and run another 6 kms and before finishing you take another left turn and run 1 km., then answer the following question based on this information.

Question : From the finishing point if you have to reach the point from where you started, in which direction will you have to run ?
(1) West
(2) East
(3) South
(4) North

Solution:1

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5. (1)

Starting point is to the West of the finishing point.

Directions (6-10) : In the following questions, select the missing number from the given responses.

6.

18	21	24
3	9	3
6	4	8
21	26	?

(1) 24
(2) 27
(3) 29
(4) 22

Solution:3

(3) Subtract the lowest number from the sum of the two largest numbers to get the lowermost number.

First Column $18 + 6 - 3 = 21$

Second Column $21 + 9 - 4 = 26$

Third Column $24 + 8 - 3 = 29$

7.

(1) 10
(2) 20
(3) 30
(4) 40

Solution:3

(3) First figure

$\sqrt{64} + \sqrt{36} + \sqrt{49}$

$\Rightarrow 8 + 6 + 7 = 21$

Second figure

$\sqrt{121} + \sqrt{81} + \sqrt{100}$

$\Rightarrow 11 + 9 + 10 = 30$

8.

(1) 6543
(2) 5634
(3) 5364
(4) 3564

Solution:1

(1) From first figure to second figure the digits of central part are written in the reverse order.

3456 = 6543

9.

I	25	15	40	8
II	65	25	90	[?]
III	45	15	60	12

(1) 18
(2) 12
(3) 24
(4) 6

Solution:1

(1) First Row

$25 + 15 = 40 ; \frac{40}{5} = 8$

Second Row

$65 + 25 = 90 ; \frac{90}{5} = 18$

Third Row

$45 + 15 = 60 ; \frac{60}{5} = 12$

10.

2	4	2
3	9	3
4	16	4
8	64	?

(1) 16
(2) 8
(3) 24
(4) 9

Solution:2

(2) In each row the product of the first and the third numbers is equal to the second number.

First row 2 x 2 = 4
Second row 3 x 3 = 9
Third row 4 x 4 = 16
Fourth row 8 x 8 = 64

Directions (11-15) : In the following questions, select the related word/letters/number from the given alternatives.

11. $\sqrt{AFI} = M : \sqrt{ADD} \doteq L ::$
$\sqrt{ABA} = ?$

(1) I
(2) N
(3) O
(4) K

Solution:4

11. (4) $\sqrt{AFI} = M$

$\Rightarrow \sqrt{169} = 13$

$\sqrt{ADD} = L$

$\Rightarrow \sqrt{144} = 12$

Similarly,

$\sqrt{ABA} = \sqrt{121} = 11 = K$

12. 16 : 22 : : 36 : ?
(1) 44
(2) 24
(3) 26
(4) 46

Solution:1

(1) 16 : 22

$\Rightarrow (4)^2 = 16$

$\Rightarrow 4 \times 5 + 2 = 22$

Similarly,

36 : ?

$\Rightarrow (6)^2 = 36$

$\Rightarrow 6 \times 7 + 2 = 44$

13. PALAEONTOLOGY : FOSSIL : : PHRENOLOGY : ?
(1) SKULL
(2) THYROID
(3) PANCREAS
(4) LUNGS

Solution:1

(1) Palaeontology is that branch of science which deals with fossils. Phrenology is the

study of the shape and size of the cranium (skull).

14. 9 : 50 : : ?
(1) 22 : 110
(2) 18 : 190
(3) 15 : 225
(4) 20 : 105

Solution:4
(4) 9 x 5 + 5 = 50 Similarly, 20 x 5 + 5 = 105

15. MIKE : OGMC : CIAD : ?
(1) EGCB
(2) EICB
(3) AJCF
(4) ENCF

Solution:1

15. (1)

Similarly,

16. In a certain code language FARMER is written as MAFMRE, in that code language which word will be written as GIVALEL ?
(1) AIGALE
(2) VAGIELL
(3) VELAIGL
(4) VIALEGL

Solution:

16. (*)

In the code the first letter is replaced with the fourth letter. Therefore, there would be M in the place of R.

17. From the given answer figures, select the one which is hidden/embedded in the question figure.

Answer figure :

(1) (2) (3) (4)

Solution:2

(2)

Directions (18-19) : In the following questions, which answer figure will complete the pattern in the question figure ?

18.

Answer figure :

(1) (2) (3) (4)

Solution:4

(4)

19.

(1) (2) (3) (4)

Solution:4

(4)

20. How many circles are there in this figure ?

(1) 16

Note: The Information Provided here is only for reference. It May vary the Original.

(2) 13
(3) 17
(4) 22

Solution:3

20. (3)

21. From the given alternative words, select the word which can not be formed using the letters of the given word: ENVIRONMENT
(1) MOVEMENT
(2) ENTER
(3) EMINENT
(4) ENTRANCE

Solution:4

21. (4) There are no 'A' and 'C' letters in the given word. Therefore, the word ENTRANCE cannot be formed.

[E] N [V] I R [O] N [M E N T]
⇒MOVEMENT

[E N] V I [R] O N M [E] N [T]
⇒ENTER

[E] N V [I] R O [N M E N T]
⇒ EMINENT

Directions (22-23) : In the following questions, two statements are given followed by two conclusions/assumptions, I and II. You have to consider the

statement to be true, even if it seems
to be at variance from commonly known facts. You are to decide which of the given conclusions/ assumptions can definitely be drawn from the given statement. Indicate your answer.

22. **Statements :**
I. Some men are good.
II. Some men are wise.
Conclusions :
I. Some wise men are good.
II. Some good men are wise.
(1) Only II follows
(2) Only I follows
(3) Neither I nor II follows
(4) Both I and II follow

Solution:3
(3) Both the Premises are Particular Affirmative (I-type).
No Conclusion follows from the two Particular Premises.

23. **Statements :**
I. All poets are day dreamers.
II All painters are day dreamers.
Conclusions :
I. All painters are poets.
II. Some day dreamers are not painters
(1) Both I and II follow
(2) Neither I nor II follows
(3) Only I follows.
(4) Only II follows

Solution:2
(2) Both the Premises are Universal Affirmative (A-type).
But, these two Premises are not aligned properly.

All poets are day dreamers.

Some day dreamers are painters.

A + I ⇒ No Conclusion

24. Six girls A, B, C, D, E, F are sitting on the ground. A and B belong to Ruby House, while the rest belong to Emerald House. D and F are tall, while others are

short. C and D are wearing glasses while others are not wearing. Which girl of Emerald House is tall and is wearing glass ?

(1) C
(2)A
(3) D
(4) B

Solution:3

24. (3)

Girl	House	Height	Glass
A	Ruby	Short	×
B	Ruby	Short	×
C	Emerald	Short	✓
D	Emerald	Tall	✓
E	Emerald	Short	×
F	Emerald	Tall	×

D is from Emerald House. She is tall. She wears glasses.

Directions (25-28) : In the following questions, find the odd number/letters/number pair from the given alternatives.

25. (1) NOSE
(2) EARS
(3) VESTIBULAR
(4) EYES

Solution:3
(3) Vestibular is Adjective of the Noun Vestibule which means an antechamber hall, or lobby next to the outer door of a building. All others are sensitive organs of animals, including human beings.

26. (1) (69, 23)
(2) (56, 19)
(3) (108, 36)
(4) (42, 14)

Solution:2
(2) Except in (56, 19), in all others the first number is three times the second number.
23 x 3 = 69
36 x 3 = 108
14 x 3 = 42

But, 19 x 3 = 57

27. 32, 13, 51, 24, 46, 20, 72, 45
(1) 13
(2) 46
(3) 20
(4) 72

Solution:1
(1) 13 is a Prime Number.

28. (1) Y U Q M
(2) S O K J
(3) R N J F
(4) T P L I

Solution:3

28. (3)

$Y \xrightarrow{-4} U \xrightarrow{-4} Q \xrightarrow{-4} M$

$S \xrightarrow{-4} O \xrightarrow{-4} K \xrightarrow{-1} J$

$R \xrightarrow{-4} N \xrightarrow{-4} J \xrightarrow{-4} F$

$T \xrightarrow{-4} P \xrightarrow{-4} L \xrightarrow{-3} I$

In letter group RNJF, all the four letters are consonants.

29. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation.
4 − 5 − 1 = 514, 3 − 5 − 6 = 563, 0 − 6 − 8 = ?
(1) 680
(2) 860
(3) 068
(4) 806

Solution:1

29. (1)

Similarly,

30. A man takes 6 km. distance to go around the rectangular area. If the area of the rectangle is 2 sq. km., find the difference between length and breadth.
(1) 2 km.
(2) 0.5 km.
(3) 1 km.
(4) 0.75 km.

Solution:3

(3) Perimeter of the rectangular area
= 2 (Length + Breadth)
= 6 km
= (L + B) = 3 km
Area of the rectangular area
= Length × Breadth
= 2 sq. km
= L × B = 2 sq. km
We know,
$(a + b)^2 - (a - b)^2 = 4\,ab$
Suppose, L = a and B = b

Therefore,

$(3)^2 - (a - b)^2 = 4 \times 2$

$\Rightarrow (a - b)^2 = 9 - 8$

$\Rightarrow a - b = 1$

Difference between Length and Breadth = 1 km

31. From the answer figures, select the cut pieces from which the question figure is formed/made.

Question Figure :

Answer Figures :

Solution:1

(1) All the components of Question Figure are present in the Answer Figure (1).

32. If a mirror is placed on the line MN, which of the answer figures is the right image of the given figure ?

Question Figure :

Answer Figures :

(1) (2) (3) (4)

Solution:3

(3)

33. Identify which one of the given alternatives will be another member of the group of that class.

Lucknow, Patna, Bhopal, Jaipur, ?

(1) Shimla

(2) Mysore

(3) Pune

(4) Indore

Solution:1

(1) Lucknow is the capital of Uttar Pradesh. Patna is the capital of Bihar. Bhopal is the capital of Madhya Pradesh. Jaipur is the capital of Rajasthan.
Similarly, Shimla is the capital of Himachal Pradesh.

34. In the question given below, the symbols used are as

A= equal to

= not equal to

+ = greater than

Ø = less than

— = not less than

O = not greater than

Read the question and mark the correct response.

If X — Y — Z then it does not.

(1) X ⊗ Y Δ Z

(2) X O Y + Z

(3) X Ø Y — Z

(4) X Ø Y + Z

Solution:

. (*) – ⇒ not less than

It means ≥

X – Y – Z

⇒ X ≥ Y ≥ Z

⇒ X > Y > Z

or, X > Y = Z

or, X = Y > Z

or, X = Y = Z

Option (1)

X ⊗ Y Δ Z

⇒ X > Y or, X < Y ; Y = Z

Option (2)

X O Y + Z

⇒ X ≤ Y > Z

Option (3)

X ∅ Y – Z

⇒ X < Y ≥ Z

Option (4)

X ∅ Y + Z

⇒ X < Y > Z

35. Arrange these letters of each group to make a meaningful word and then find the odd one out.

(1) VEENS

(2) VIDEID

(3) ORFU

(4) GHIET

Solution:2

(2) VEENS ⇒ SEVEN

VIDEID ⇒ DIVIDE

ORFU ⇒ FOUR

GHIET ⇒ EIGHT

Except DIVIDE, all others are numbers.

36. In a certain code language '481' means 'sky is blue', '246' means 'sea is deep' and

'698' means 'sea looks blue'. What number is the code for 'blue'

(1) 8
(2) 6
(3) 1
(4) 9

Solution:1

36. (1)

4 [8] 1 ⟶ sky is [blue]

2 4 6 ⟶ sea is deep

6 9 [8] ⟶ sea looks [blue]

37. Identify the answer figure from which the pieces given in the question figure have been cut.

Question Figure :

Answer Figures :

(1) (2) (3) (4)

Solution:2

(2)

38. **Directions :** A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of matrix I are numbered from 0 to 4 and that of matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 01, 14 etc. and 'E' can

be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'ORGAN'

Matrix - I

	0	1	2	3	4
0	P	A	G	R	Z
1	G	R	Z	P	A
2	Z	P	A	G	R
3	A	G	R	Z	P
4	R	Z	P	A	G

Matrix - II

	5	6	7	8	9
5	E	M	L	N	O
6	L	E	O	M	N
7	O	N	E	L	M
8	N	O	M	E	L
9	M	L	N	O	E

(1) 75, 03, 11, 22, 76
(2) 86, 40, 23, 14, 96
(3) 98, 03, 44, 22, 58
(4) 67, 22, 31, 58, 22

Solution:3

38. (3) O ⇒ 59, 67, 75, 86, 98
R ⇒ 03, 11, 24, 32, 40
G ⇒ 02, 10, 23, 31, 44
A ⇒ 01, 14, 22, 30, 43
N ⇒ 58, 69, 76, 85, 97

Option	O	R	G	A	N
(1)	75	03	11	22	76
(2)	86	40	23	14	96
(3)	98	03	44	22	58
(4)	67	22	31	58	22

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