

| Quantitative Aptitude | 20 Questions |
| :--- | :--- |
| Reasoning | 20 Questions |
| English | 20 Questions |
| Current Affairs | 20 Questions |
| General Studies | 20 Questions |

## According to <br> latest Syllabus \& <br> Exam pattern

## MockTestfor IBAOOGradell

## INSTRUCTIONS

1. This practice test will be a 1 hour Test.
2. This test consists of Quantitative Aptitude, General Awareness/Studies, Reasoning Ability, and English Language questions with equal weightage of 100 marks.
3. Each question is of 1 marks.
4. There are four sections in the question paper consisting of Quantitative Aptitude (Q.no. 1 to 20), Reasoning Ability (Q.no. 21 to 40), English Language
(Q. no. 41 to 60 ) and General Awareness/Studies (Q. No. 61 to 100).
5. There will be only one correct choice in the given four choices. Each question carries a weightage of 1 mark and 0.25 marks will be deducted for every wrong answer.
6. Hints and explanations have been given at the end.


## QUANTITATIVE APTITUDE

1. The average age of 8 men of a group is increased by 2 years, when two men aged 27 years and 37 years are substituted by two women. Find the average age of the two women?
(a) 32 years
(b) 40 years
(c) 39 years
(d) 41 years
2. A constable is 114 m behind a thief. The constable runs 21 m per minute and the thief runs 15 m in a minute. In what time will the constable catch the thief ?
(a) 19 min
(b) 18 min
(c) 17 min
(d) 16 min
3. A man sells sugar to a tradesman at a profit of $20 \%$ but the tradesman became bankrupt. Therefore, he pays only 72 paisa instead of ' 1. How much percent does the man gain or loss by his sale?
(a) $13 \%$ profit

(d) $13 \frac{3}{5} \% \quad$ loss
4. A box contains ` 56 in the form of coins of one rupee, 50 paise and 25 pase. The number of 50 parse coins is double the number of 25 paise coins and four times the number of one rupee coins. How many 50 paise coins are there in the box?
(a) 52
(b) 64
(c) 32
(d) 16
5. A trader sells 20 kg of sugar at ${ }^{`} 400$. A customer asks $20 \%$ discount and he agreed to pay him but instead of 1 kg , he gives $4 \%$ less sugar. What is the effective discount that the customer gets?
(a) $25 \%$
(b) $14 \frac{2}{7} \%$
(c) $20 \%$
(d) $16 \frac{2}{3} \%$
6. A man rides one-third of the distance from A to $B$ at the rate of $x \mathrm{~km} / \mathrm{h}$, and the remaining at the rate of $2 \mathrm{ykm} / \mathrm{h}$. If he had travelled at a uniform rate of $6 \mathrm{zkm} / \mathrm{h}$, from $A$ to $B$ and back again in the same time. Which of the following is correct?
(a) $\mathrm{z}=\mathrm{x}+\mathrm{y}$
(b) $3 \mathrm{z}=\mathrm{x}+\mathrm{y}$
(c) $\frac{1}{z}=\frac{1}{x}+\frac{1}{y}$
(d) $\frac{1}{2 z}=\frac{1}{x}+\frac{1}{y}$
7. A dishonest shopkeeper sells his goods at $6 \frac{1}{4} \%$ loss, but he measure $12 \frac{1}{2} \%$ less, then find his profit or loss percentage.

- TM
(a)
(b) $6 \frac{1}{5} \%$ Profit

8. $\frac{13}{48}$ is equal to :
(d) $6 \frac{1}{5} \%$ Loss
(a) $\frac{1}{3+\frac{1}{1+\frac{1}{16}}}$
(b) $\frac{1}{2+\frac{1}{1+\frac{1}{8}}}$
(c) $\frac{1}{3+\frac{1}{1+\frac{1}{1+\frac{1}{1+\frac{1}{8}}}}}$
(d) $\frac{1}{3+\frac{1}{1+\frac{1}{2+\frac{1}{4}}}}$
9. Three friends Anita, Bindu and Champ divided ` 1105 amongst them in such a way that if \({ }^{`} 10\), `20 and` 15 are removed from the sums that Anita, Bindu and Champ received respectively, then the share of the sums that

## Want to practice more such <br> 

ISBN
9789355647573

*The mock test you are practicing is taken from Disha's new book 15 Practice Sets for IB ACIO Intelligence Bureau Assistant Central Intelligence Officer Grade-I

## Get this book at discounted price on

## DISHA

Publication Inc

## amazon.in


https://amzn.to/3TpicW5

## Flipkart


https://bit.ly/48hIM7W
they got will be in the ratio of $11: 18: 24$. How much did Champa receive?
(a) `495 (b) \({ }^{`} 510\)
(c) `480 (d)` 375
10. The average age of a family consisting of 5 members, 3 years ago was 35 years. One year ago a new baby was born in the family. Three years, hence the average age of the family will be
(a) 36 years
(b) $34 \frac{5}{6}$ years
(c) $35 \frac{4}{5}$ years
(d) None of these
11. The population of a town is $3,11,250$. The ratio between women and men is $43: 40$. If there are $24 \%$ literate among men and $8 \%$ literate among women, the total number of literate person in the town is:
(a) 41,800
(b) 48,900
(c) 56,800
(d) 99,660
12. Two prsons A and B start simultaneously from two places C km apart, and walk in the same direction. If A travels at the rate of $\mathrm{P} \mathrm{km} / \mathrm{hr}$, and B travels at the rate of $q \mathrm{~km} / \mathrm{hr}$, then the distance travelled by A before he overtakds $\mathrm{B}^{\circ}$ is CliOn
(a) $\frac{q C}{P+q} \mathrm{~km}$
(b) $\frac{P C}{P-q} \mathrm{~km}$
(c) $\frac{q C}{P-q} \mathrm{~km}$
(d) $\frac{P C}{P+q} \mathrm{~km}$
13. A milkman claims to sell milk at its cost price only, but he is making a profit of $20 \%$ since he has mixed some amount of water in the milk. What is the percentage of milk in the mixture?
(a) $80 \%$
(b) $\frac{250}{3} \%$
(c) $75 \%$
(d) $\frac{200}{3} \%$
14. The perimeter of an isoceles triangle is 544 cm and each of the equal sides is $\frac{5}{6}$ times the base. What is the area (in $\mathrm{cm}^{2}$ ) of the triangle?
(a) $38172 \mathrm{~cm}^{2}$
(b) $18372 \mathrm{~cm}^{2}$
(c) $31872 \mathrm{~cm}^{2}$
(d) $13872 \mathrm{~cm}^{2}$
15. A alone can complete a piece of work in 18 days and B alone in 15 days, B alone worked at it for 10 days and then left the work. In how many more days, will A alone complete the remaining work?
(a) 5 Days
(b) $5 \frac{1}{2}$ Days
(c) 6 Days
(d) 8 Days
16. If $x$ runs is scored by $\mathrm{A}, \mathrm{y}$ runs by B and Z runs by C , also $\mathrm{x}: \mathrm{y}=\mathrm{y}: \mathrm{z}=5: 4$. If total number of runs scored by $\mathrm{A}, \mathrm{B}$ and C is 1098 , then runs scored by each would be respectively.
(a) $(450,360,288)$
(b) $(360,280,332)$
(c) $(460,350,200)$
(d) $(280,332,480)$
17. $\mathrm{A}, \mathrm{B}$ and C enter/into a partnership. A invests $\frac{1}{4}$ part of total capital for one-forth of the time. B contributes one-fifth of the capital for halfor the time. C contributes the remaining capital for the whole time. How should they divided a profit of ` 1140 ? (a) \({ }^{`} 100,{ }^{`} 160, ` 880\)
(b) ${ }^{`} 110, ` 140, ` 860$
(c) ${ }^{`} 120, ` 150, ` 840$
(d) $` 140, ` 170, ` 830$
18. A candidate scores $\mathrm{x} \%$ marks in an examination fails by a marks, while another candidate who scores $\mathrm{y} \%$ marks gets b marks more than the minimum required pass marks. What is the maximum marks in the examination?
(a) $\frac{100(a+b)}{x-y}$
(b) $\frac{100(a-b)}{x+y}$
(c) $\frac{100(a+b)}{y-x}$
(d) $\frac{100(a-b)}{x-y}$
19. If three vertices of a regular hexagon are chosen at random, then the chance that they form an equilateral triangle is:
(a) $\frac{1}{3}$
(b) $\frac{1}{5}$
(c) $\frac{1}{10}$
(d) $\frac{1}{2}$
20. From eighty cards numbered 1 to 80 , two cards are selected randomly. The probability that both the cards have the numbers divisible by 4 is given by
(a) $\frac{21}{316}$
(b) $\frac{19}{316}$
(c) $\frac{1}{4}$
(d) None of these

## REASONING ABILITY

21. Four of the following five are alike on the basis of being divisible by a particular number and hence form a group. Which of the following does not belong to that group?
(a) 21
(b)
(c) 65
(d) 77
(e) 35

Dublication
22. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group ?
(a) ! $19(0)$
(b) 2 @ $3 \# 4 \$$
(c) $\% 58 *_{-}$
(d) $4^{\wedge} 8 \&=-$
(e) $1!4 \$ 0)$
23. What should come next in the following letter series based on English alphabet?
CEA IKG OQM ?
(a) STW
(b) WUS
(c) SWU
(d) UWS
(e) None of these
24. What should come next in the following letter series ?
PQRSTABCDEPQRS
ABCDEPQRSABCDPQ
(a) R
(b) T
(c) A
(d) B
(e) None of these
25. In a certain code GIVEN is written as MDVJH. How is SHARK written in that code?
(a) JSAIT
(b) JQAIT
(c) TIAQJ
(d) JQBTI
(e) JQIAT
26. In a certain code language 'GUST' is coded as '@7\$2' and 'SNIP' is coded as '957\#' and 'GAPE' is coded as ' $\beta \$ 35$ '. How will 'SING' be coded in the same code?
(a) 9\$7\#
(b) $59 \# \$$
(c) $9 \beta 7 \$$
(d) $7 \$ 59$
(e) $\$ 27 \#$
27. Read the following information carefully and answer the question which follows:
' $\mathrm{A} \times \mathrm{B}$ ' means ' A is the father of B '.
' $\mathrm{A}+\mathrm{B}$ ' means ' A is the daughter of B '.
' $A \div B$ ' means ' $A$ is the son of $B$ '.
' $\mathrm{A}-\mathrm{B}$ ' means ' A is the sister of B '.
What will come in place of question mark to establish that $P$ is the son-in-law of $S$ in the following expression?
(b) $\times$
(a) +
(d) $\div$
(c) -
(e) Either + or - -

DIRECTIONS (Qs. 28-29): Study the following information to answer the given questions :

Point P is 5 m towards the South of Point M. Point Q is 3 m towards the East of Point P. Point O is 3 m towards the East of Point M. Point N is 2 m towards the South of Point Q .
28. A person, facing North, takes a left turn from point M , walks 4 m and stops. He then takes another left turn, walks 5 m and stops at point R . Which of the following points, including R, fall in a straight line?
(a) $\mathrm{M}, \mathrm{O}, \mathrm{R}$
(b) $\mathrm{N}, \mathrm{R}, \mathrm{P}$
(c) $R, O, Q$
(d) $\mathrm{R}, \mathrm{Q}, \mathrm{N}$
(e) $\mathrm{Q}, \mathrm{P}, \mathrm{R}$
29. How far and towards which direction is Point O from Point N?
(a) 5 m towards South
(b) 7 m towards North
(c) 8 m towards West
(d) 7 m towards West
(e) 5 m towards North
30. Amongst five friends, A, B, C, D and E, each bought a mobile phone for a different price. A paid more than both C and E . Only B paid more than D. E did not pay the minimum amount. E paid `8,000 for the phone. Which of the following is true with regard to the given information? (a) Only two people paid a price less than the price paid by \(B\) (b) E paid more than C and B (c) Noone paid more amount than that paid by C (d) Amongst the five friends, C is most likely to have paid` 9,000 for the mobile phone
(e) None is true

DIRECTIONS (Qs. 31-32) : Study the following information carefully and answer the questions given below:
$\mathrm{P}, \mathrm{Q}, \mathrm{A}, \mathrm{B}, \mathrm{D}, \mathrm{R}$ and F are sitting around al cireular táble facing the center. $R$ is not second to the leftof $D$ and D is not an immediate neighbour of B . A is third to right of $\mathrm{F} . \mathrm{B}$ is second to the left of $\mathrm{F} . \mathrm{Q}$ is not an immediate neighbour of B or F .
31. Who is second to the right of P ?
(a) R
(b) Q
(c) D
(d) A
(e) Data inadequate
32. Who is to the immediate left of F ?
(a) R
(b) P
(c) D
(d) Data inadequate
(e) None of these
33. aa_aa bb_b_aa_aa bb_bb.
(a) bbbaa
(b) bbbba
(c) $a a b b b$
(d) babba
34. Find the wrong number in the series from the given alternatives.
$17,36,53,68,83,92$
(a) 92
(b) 53
(c) 68
(d) 83
35. In a row of students, if John, who is 16th from the left, and Johnson, who is 8th from the right, interchange their positions, John becomes 33rd from left. How many students are there in a row?
(a) 38
(b) 39
(c) 40
(d) 41
36. Find the missing number.


(a) 37
(b) 45
(c) 47
(d) 57
37. In the given figure, circles represent students studying three different subjects. How many students study all the three subjects?

(a)
(b) 3
(d) 1
38. Identify the diagram that best represents the relationship among the classes given below : Liquids, Milk, River water
(a)

(b)

(c)

(d)

39. Two statments are given below followed by four alternative inferences. Select the one which is most appropriate.

## Statements :

(i) All radios sold in that shop are of high standard.
(ii) Some of Murphy radios are sold in that shop.

## Inferences:

1. All radios of high standard are manufactured by Murphy company.
2. Some of the Murphy radios are of high standard.
3. None of the Murphy radios is of high standard.
4. Some of the Murphy radios of high standard are sold in that shop.
(a) 1 and 2 inferences only
(b) 2 and 4 inferences only
(c) 1 and 3 inferences only
(d) 1 and 4 inferences only
5. Two 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.

## Statements:

Some rivers are brooks.
No brook is a stream.

## Conclusions:

I. No stream is a brook.
II. Some streams are rivers.
III. Some brooks are rivers.
(a) Only conclusions I and III follow.
(b) Only conclusions II and III follow.
(c) Only conclusions and $\amalg$ follow.
(d) Only conclusion I follows.| CatiO

## ENGLISH LANGUAGE

DIRECTIONS (Qs. 41-42): In the following questions, out of the four alternatives choose the one which can be substituted for the given words/sentences.
41. The firing of a number of guns together as a salute of otherwise
(a) Reception
(b) Salutation
(c) Salvo
(d) Gun- salute
42. Study of the problems of legal punishment and prison management
(a) Neurology
(b) Astrology
(c) Penology
(d) Criminology

DIRECTIONS (Qs. 43-44): In each of the following questions, a word has been written in four different ways out of which only one is correctly spelt. Find the correctly spelt word.
43. (a) Tentaitive
(b) Tentative
(c) Tentitive
(d) Tantitive
44.
(a) Surveilance
(b) Survellance
(c) Surveillance
(d) Survailance

DIRECTIONS (Qs. 45-46): In these questions some of the sentences have errors and some have none. Find out which part of a sentence has an error and indicate it corresponding to the appropriate letter. If there is no error, indicate corresponding to the last option.
45. I have lived (A) / in Delhi (B)/ from 1965. (C) / No error (D)
(a) A
(b) B
(c) C
(d) D
46. Employees are expected to $(\mathrm{A}) /$ adhere the rules (B) / laid down by the management. (C)/ No error (D)
(a) A
(b) B
(c) C
(d) D

DIRECTIONS (Qs. 47-48): In these questions, a sentence/ part of the sentence is bold. Below are given alternatives to the bold sentencel part of the sentence at (a), (b) and (c) which may improve the sentence. Choose the correct alternatives. In case, no improvement is needed, your answer is ( $d$ ).
47. The flag will be risen on the 15th of August.
(a) The flag will be roused on the 15th of August
(b) The flag will be rising on the 15th August
(c) The flag will be raised on the 15th of August
(d) Noimprovement
48. If I had the money I would have bought the house.
(a) If I had had the money I would have bought the house
(b) If I have the money I would have bought the house
(c) If I have had the money I would have bought the house
(d) No improvement

DIRECTIONS (Qs. 49-50): In each question, a part of sentence is printed in bold. Below each sentence, some phrases are given which can substitute the bold part of the sentence. Find out the phrase which can correctly substitute that part of the sentence. If the sentence is correct as it is, the answer is 'No correction required' or 'No improvement'.
49. Beside cricket Rahul plays tennis as well.
(a) Beside, Rahul plays cricket and tennis as well.
(b) Besides cricket Rahul plays tennis as well.
(c) Besides, Rahul plays cricket and tennis as well.
(d) Noimprovement
50. I've been to a few of his talks but understood little of what he has said.
(a) little of what he said
(b) a little of what he has said
(c) little of what he has talked
(d) No improvement

DIRECTIONS (Qs. 51-52) : 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 correet alternative out of the four as your answer.
51. To the dismay of the student body, the class president was ___ berated by the principal at the school assembly.
(a) ignominiously
(c) magnanimously
52. I would apologize if I
(a) am

(c) have been
53. Choose the one which bestexpresses then meaning of the given word as your answer.
Vivacious
(a) Poisonous
(b) Energetic
(c) Tricky
(d) Slow
54. Choose the word opposite in meaning to the given word as your answer.
Vanity
(a) Humanity
(b) Humility
(c) Pretension
(d) Arrogance

DIRECTIONS (Qs. 55-56) : In the following questions, four alternatives are given for the idiom/phrase underlined in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase.
55. He made away with ten thousand rupees in the course of three months.
(a) earned
(b) ran away with
(c) squandered
(d) saved
56. The students of that group have assured their project guide that they will all work against the clock.
(a) work while keeping patience
(b) work with vigour to finish in limited time
(c) work with enthusiasm
(d) work hard to go against the time

DIRECTIONS (Qs. 57-58): In the following questions a sentence has been given in Active /Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passivel Active Voice.
57. Who asked you to draft this letter ?
(a) By who you are asked to draft this letter.
(b) By who have you been asked to draft this letter.
(c) By whom were you asked to draft this letter?
(d) By whom you were asked to draft this letter.
58. They created such a fuss over a trivial matter.
(a) Such a fuss is being created over a trivial matter.
(b) Such a fuss was created over a trivial matter. (c) Such a fuss has been created over a trivial matter.
(d) By them such a fuss has been created over a trivial matter.
DIRECTIONS (Qs. 59-60): In these questions, two words will be given to you, and these two words will have some kind of a relationship which relates them in a particular way. After finding this relationship, you have to pick the option which has words related in a similar way:
59. Libertine: Immorality::
(a) Victim: depravation
(b) Miser : selfishness
(c) Altruist : selflessness
(d) Policeman: law
60. simmer: boil::
(a) Glide: drift
(b) Drizzle : downpour
(c) Gambol: play
(d) Stagnate: flow

## GENERAL AWARENESS/ STUDIES

61. Which nation is hosting the U-19 Youth Asia Cup?
(a) UAE
(b) Qatar
(c) Bangladesh
(d) India
62. Who is the highest ranked Indian in the ICC allrounders rankings?
(a) R Ashwin
(b) Ravindra Jadeja
(c) Mayank Agarwal
(d) Hardik Pandya
63. Which team won the bronze medal at the Asian Champions Trophy 2021?
(a) India
(b) Japan
(c) Pakistan
(d) South Korea
64. Who has been ranked world no. 1 in the latest ICC Men's Test Batsmen Rankings 2021?
(a) Kane Williamson
(b) Babar Azam
(c) Travis Head
(d) Marnus Labuschagne
65. Which state to get its first Teachers University?
(a) Delhi
(b) Rajasthan
(c) Madhya Pradesh unlication
(d) Uttar Pradesh
66. Who has become the first Indian male shuttler to win silver at BWF World Championships?
(a) Kidambi Srikanth
(b) Lakshya Sen
(c) HS Prannoy
(d) Sai Praneeth
67. When is Good Governance Day observed?
(a) April 20th
(b) December 25th
(c) October 3rd
(d) May 24th
68. Which state has recently devised a 25 -year action plan and set the goal of zero dropouts?
(a) Punjab
(b) Jharkhand
(c) Tripura
(d) Chhattisgarh
69. The Union Ministry of Environment, Forest and Climate Change (MoEFCC) has sanctioned ` 33 Crore financial assistant to Kaziranga

Tiger Reserve, under Project Tiger scheme. The Kaziranga National Park is located in which Indian state?
(a) Maharashtra
(b) Assam
(c) Uttarakhand
(d) Madhya Pradesh
(e) Mizoram
70. Which nation has honoured Prime Minister Narendra Modi its highest civilian award Ngadag Pel gi Khorlo?
(a) Bhutan
(b) Malaysia
(c) Indonesia
(d) Sri Lanka
71. If a ship moves from freshwater into seawater, it will
(a) sink completely
(b) sink a little bit
(c) rise a little,higher
(d) remain unaffected
72. Viewfinders, used in automobiles to locate the position of the vehicles behind, are made of
(a) plane mirror
(b) concave mirror
(c) convex mirror
(d) parabolic mirror
73. Which one of the following when dissolved in $\mathrm{H}_{2} \mathrm{O}$ gives hissing sound?
(a) Limestone
(b) Slaked lime
(c) Sodalime
(d) Quicklime
74. Commercial vulcanisation of rubber involves
(a) sulphur
(b) carbon
(c) phosphorus
(d) selenium
75. Which of the following plants is not capable of manufacturing its own food?
(a) Algae
(b) Mushroom
(c) Carrot
(d) Cabbage
76. Which one of the following is considered as the easily digestible source of protein?
(a) Egg albumin
(b) Soyabean
(c) Fish flesh
(d) Red meat
77. Consider the following statements with respect to the Comptroller and Auditor General of India

1. He shall only be removed from office in like manner and on the ground as a Judge of the Supreme Court.
2. He shall not be eligible for further office either under the Government of India or under the Government of any State after he has ceased to hold his office.
Which of the statements given above is/are correct?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
3. Which one of the following International Human Rights Instruments has been signed by India but not yet ratified ?
(a) Convention on the right of the child.
(b) Convention on the Elimination of all forms of discrimination against women
(c) Convention on the political rights of women
(d) Convention on the nationality of married women
4. The Constitution (74th) Amendment Act makes mention of the
(a) composition of the National Development Council
(b) structure of the Planning Gommission iof (d) get full knowledge about the condition of India
(c) functions of the State Finance Commission
(d) functions of the Kaveri Water Authority
5. Under which of the following conditions can citizenship be provided in India?
6. One should be born in India.
7. Either of whose parents was born in India
8. Who has been a resident of India for not less than five years.
Select the correct answer using the codes given below
(a) 1,2 and 3
(b) 1 and 2
(c) 2 and 3
(d) None of these
9. Which one of the following is a human right as well as a Fundamental Rights under the Constitution of India?
(a) Right to Information
(b) Right to Education
(c) Right to Work
(d) Right to Housing
10. Consider the following statements
11. The total elective membership of the Lok Sabha is distributed among the States on the basis of the population and the area of the State.
12. The 84th Amendment Act of the Constitution of India lifted the freeze on the delimitation of constituencies imposed by the 42 nd Amendment.
Which of the statements given above is/are correct?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2
13. Fa-Hien's mission to India was to
(a) learn about the administrative system of the Guptakings
(b) understand the social position of women during the Gupta period
(c) visit the Buddhist institutions and to collect copies of Buddhist manuscripts
14. Which British military officer defeated Tipu Sultan in India, Napolean Bonaparte in Europe and eventually, became the Duke of Wellington?
(a) Arthur Wellesley
(b) Robert Clive
(c) Warren Hastings
(d) Richard Wellesley
15. Consider the following statements
16. Dayanand Saraswati founded the Arya Samaj in 1875.
17. The Arya Samaj repudiated the authority of the caste system.
18. Dayanand Saraswati was born in the Brahman family.
Which of the statements given above are correct?
(a) 1, 2 and 3
(b) 1 and 2
(c) 2 and 3
(d) 1 and 3
19. Consider the following statements about National Calendar of India
20. The National Calendar based on the Saka era with Chaitra as its first month.
21. Dates of the National Calendar have a permanent correspondence with dates of the Gregorian calendar.
Which of the statements given above is/are correct?
(a) Only 1
(b) Only 2
(c) Both 1 and 2
(d) Neither 1 nor 2.
22. Which one of the following is/are credit rating agency/ agencies in India ?
(a) CRISIL
(b) CARE
(c) ICRA
(d) All of the above
23. Who among the following is the Chairman of the Fourteenth Finance Commission?
(a) C.Rangarajan
(b) Vijay Kelkar
(c) Y. V. Reddy
(d) Rakesh Mohan $D$ (d) international taxation of property
24. Which one of the following statements is 93 . The $76 \%$ growth rate registered by Indian correct?
For the purpose of Census 2011
(a) a person aged seven and above who can both read and write with understanding in any language is treated as a literate
(b) a person aged eight and above who can both read and write with understanding in any language is treated as a literate
(c) a person aged nine and above who can both read and write with understanding in any language is treated as a literate
(d) a person aged ten and above who can both read and write with understanding in any language is treated as a literate
25. Consider the following statements about the Second Five-Year Plan :
26. It was drafted under the leadership of K. N. Raj.
27. It proposed that industries like electricity, railways, steel, machineries and communication could be developed in the public sector.
28. The drafters found balancing industry and agriculture very difficult.
29. The drafters found balancing industry and agriculture really easy.
Which of the statements given above is/are correct?
(a) 1 only
(b) 1 and 2
(c) 2 and 3
(d) 3 and 4
30. Which one of the following is not a component of Revenue Receipts of the Union Government?
(a) Corporate tax receipts
(b) Dividends and profits
(c) Disinvestment receipts
(d) Interest receipts
31. TRIPS Agreement pertains to
(a) international tariff regime
intellectual property protection
international practices on trade facilitation
economy during the year 2015-16 is based on
(a) Gross National Product at market prices
(b) Gross Value Added at constant prices
(c) Gross Domestic Product at market prices
(d) Gross Domestic Product at constant prices
32. Which of the following statements about the Trans-Pacific/ Partnership (TPP) is / are correct?
33. The TPP was signed by 12 Pacific Rim nations in the year 2015.
34. The TPP is likely to be a game-changer in global trade as member countries account for about 40 percent of global GDP.
35. India is a founder member of TPP.

Select the correct answer using the code given below.
(a) 1, 2 and 3
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1 only
95. Which of the following statements about Bitcoin is/are correct?

1. It is a decentralized virtual currency.
2. It is generated through complex computer software systems.
3. The Reserve Bank of India recognized it as a legal tender in January 2016.
Select the correct answer using the code given below.
(a) 1 only
(b) 1 and 2 only
(c) 2 and 3 only
(d) 1, 2 and 3
4. In the year 2016, the Government of India announced a ` 6,000 crore special package for the textile and apparel sector to
5. create one crore jobs within three years
6. create jobs equally for men and women
7. provide tax and production incentives for the entrepreneurs
Select the correct answer using the code given below.
(a) 1 only
(b) 2 and 3 only
(c) 1 and 3 only
8. The Twelfth Five-Year Plan focussed on inclusive growth. Which of the following were considered as challenges for inclusiveness?
9. Poverty
10. Group inequality
11. Regional imbalance
12. Unemployment

Select the correct answer using the code given below.
(a) 1,3 and 4 only
(b) 1,2, 3 and 4
(c) 1,2 and 4 only
(d) 2 and 3 only
98. The Most Favoured Nation (MFN) Clause under WTO regime is based on the principle of
(a) non-discrimination between nations
(b) discrimination between nations
(c) differential treatment between locals and foreigners
(d) uniform tariff across commodities
99. Which of the following is the most powerful type of computer?
(a) Super-micro
(b) Super conductor
(c) Super computer
(d) Megaframe
100. Which of the following is not a language of DBMS?
(a) (b) DML
(c) PASCAL
(d) PLI

## Make your



## Preparation <br> a Sure Shot Success

with


## Hints \& Explanations

1. (b) Total age of 2 women
$=(27+37)+2 \times 8=80$ years
$\therefore$ Required average age $=\frac{80}{2}$
$=40$ years
2. 

(a)
$21 \mathrm{~m} / \mathrm{min}$ thief

Required time $=\frac{114}{21-15}=\frac{114}{6}$
$=19 \mathrm{~min}$
3. (d) $20 \%$ profit $=\frac{20}{100}=\frac{1}{5}$
C.P S.P
$5 \quad 6$
$1 \rightarrow 0.72$
$6 \rightarrow 6 \times 0.72=4.32$
$\begin{aligned} 6 \rightarrow 6 \times 0.72 & =4.32 \\ \operatorname{loss} \% & =\frac{0.68}{5} \times 100=\frac{68}{5}=13 \frac{3}{5} \%\end{aligned} \quad=\frac{2 d}{6 z}=\frac{d}{3 z} \mathrm{~h}$.
4. (b) Total money $=` 56$

$3.5 \mathrm{R}=56$
$\mathrm{R}=\frac{56}{3.50}=16$
50 paise coin $=16 \times 4=64$
5. (d) S. P of 20 kg sugar $={ }^{`} 400$
$\therefore \mathrm{SP}$ of 1 kg sugar $={ }^{`} 20$
Discount $=20 \%=\frac{1}{5} \rightarrow$ Discount
$\therefore$ MP of 1 Kg sugar $=\frac{5}{4} \times 20={ }^{`} 25$
Now, the gives $4 \%$ less sugar instead of 1 kg
i.e he gives 960 gm sugar
i.e SP of 960 gm sugar $={ }^{`} 20$
$\therefore$ SP. of 1 kg sugar $=\frac{20}{960} \times 100=\frac{125}{6}$
$\therefore$ Effective discount $=\frac{25-\frac{125}{6}}{25} \times 100$

$$
=\frac{25}{6} \times 4=16 \frac{2}{3} \%
$$

6. (c) Let distance from $A$ to $B=d \mathrm{~km}$
$\therefore \mathrm{t}=$ time taken by man
$=\frac{d / 3}{x}+\frac{2 d / 3}{2 y}=\frac{d}{3}\left[\frac{1}{x}+\frac{1}{y}\right] \mathrm{h}$.
If his speed $=6 \mathrm{zkm} / \mathrm{h}$.
Then time taken by him to cover AB
$=\frac{d}{6 z} \mathrm{~h}$.
$\therefore$ total time from A to B and back again
$\Rightarrow \frac{1}{z}=\frac{1}{x}+\frac{1}{y}$
7. (a) $6 \frac{1}{4} \%=\frac{1}{16}$
$12 \frac{1}{2} \%=\frac{1}{8}$
Let $\mathrm{CP}=16$


Actual C.P S.P
$\therefore$ Profit $\%=\frac{15-14}{14} \times 100=\frac{50}{7}=7 \frac{1}{7} \%$
8. (d) According to the question,

$$
\begin{aligned}
& \frac{1}{3+\frac{1}{1+\frac{1}{2+\frac{1}{4}}}} \Rightarrow \frac{1}{3+\frac{1}{1+\frac{4}{9}}} \\
& \Rightarrow \frac{1}{3+\frac{9}{13}} \\
& \Rightarrow \frac{13}{48} \text { satisfied. }
\end{aligned}
$$

9. (a) Let the shares of Anita, Bindu and Champa are $11 \mathrm{x}, 18 \mathrm{x}$ and 24 x respectively.
So, $1105=11 \mathrm{x}+10+18 \mathrm{x}+20+24 \mathrm{x}+15$
$\Rightarrow 1105$
$=53 \mathrm{x}+45$
$\mathrm{x}=20$
Amount received by Champa $=24 \mathrm{x}+15$
$=24 \times 20+15={ }^{\prime} 495$
10. (b) Clearly, present average age of 5 member $=35+3=38$ years.
and present age of baby $\#$ (1yeat: $\mid$ ○ $\| \cap C$
$\therefore$ After 3 years, average age of the family
$=\frac{(38+3) \times 5+(1+3)}{6}$
$=\frac{205+4}{6}=\frac{209}{6}=34 \frac{5}{6}$ years.
11. (b) Women $=\frac{43}{83} \times 311250=161250$

Men $=311250-161250=150000$
$\therefore$ Total number of literate persons
$=\frac{161250 \times 8}{100}+150000 \times \frac{24}{100}$
$=12900+3600=48900$
12.
(c)

$\xrightarrow{\mathrm{P} \mathrm{km} / \mathrm{hr}} \xrightarrow{\mathrm{qkm} / \mathrm{r}}$
time required for $\mathrm{B}=\frac{C}{P-q}$
$\therefore$ Required distance $=\mathrm{Pt}=\frac{P C}{P-q} \mathrm{~km}$
13. (b) Profit $=20 \%=\frac{1}{5} \rightarrow$ Profit
$\mathrm{SP}=5+1=6$
i.e C.P of the mixture $=6$
$\& \mathrm{CP}$ of the pure mixture $=5$
$\therefore$ required $\%=\frac{5}{6} \times 100=\frac{250}{3} \%$


$$
\begin{aligned}
& \mathrm{AB}=\mathrm{AC}=\frac{5}{6} \mathrm{BC} \\
& \mathrm{AB}+\mathrm{BC}+\mathrm{AC}=544
\end{aligned}
$$

$$
\frac{5}{6} \mathrm{BC}+\mathrm{BC}+\frac{5}{6} \mathrm{BC}=544
$$

$$
\Rightarrow \frac{16 B C}{6}=544
$$

$$
\mathrm{BC}=\frac{544 \times 6}{16}=204
$$

$\mathrm{BC}=\frac{544 \times 6}{16}=204$


$$
\Rightarrow \frac{5 B C+6 B C+5 B C}{6}=544
$$

$$
\mathrm{AB}=\mathrm{AC}=\frac{5}{6} \times 204=170 \mathrm{~cm}
$$

Area of $\triangle \mathrm{ABC}$
$=\frac{b}{4} \sqrt{4 a^{2}-b^{2}}$,
where $\mathrm{a}=$ equal side $\mathrm{b}=$ base
$=\frac{204}{4} \sqrt{4(170)^{2}-(204)^{2}}$
$=51 \sqrt{115600-41616}$
$=51 \sqrt{73984}$
$=51 \times 272=13872 \mathrm{~cm}^{2}$
15. (c)

|  | 90 (total work) |
| :--- | :--- |
| A $\downarrow 18$ | 5 (efficiency) |
| B $\downarrow 15$ | 6 (efficiency) |

B's 10 day's work $=6 \times 10=60$ units work left $=90-60=30$ units

A does 30 unit in $=\frac{30}{5}=6$ days
16. (a)

$\mathrm{x} |$| x | $:$ | y | $:$ |
| :---: | :---: | :---: | :---: |
| 5 | $:$ | 4 | $:$ |
| 7 |  |  |  |
| 5 | $:$ | 5 | $:$ |
| 25 | $:$ | 20 | $:$ |

units = `1140 57 units =` 1140
1 units $=` \frac{1140}{57}=` 20$
Profit of $\mathrm{A}=20 \times 5={ }^{`} 100$
Profit of $B=20 \times 8={ }^{`} 160$
Profit of $\mathrm{C}=44 \times 20={ }^{`} 880$
18.
8. (c)
$x \%+a=y \%-b$
$a+b=y \%-x \%$
$a+b=(y-x) \%$
$100 \%=100 \frac{(a)+(b)}{y-x}$
19. (c) Three vertices can be selected in ${ }^{6} \mathrm{C}_{3}$ ways.

$\mathrm{A}_{1} \mathrm{~A}_{3} \mathrm{~A}_{5}$ and $\mathrm{A}_{2} \mathrm{~A}_{4} \mathrm{~A}_{6}$
$\because$ runs scored by $A+B+q=x+y+{ }^{\circ} \mathrm{C}$
$=25 \mathrm{x}+20 \mathrm{x}+16 \mathrm{x}=61 \mathrm{Cl} \| \cap \cap$
$\mathrm{p}=\frac{2}{{ }^{6} \mathrm{C}_{3}}=\frac{2}{20}=\frac{1}{10}$
$\therefore \mathrm{x}=\frac{1098}{61}=18$
Runs covered by $\mathrm{A}=25 \mathrm{x}=25 \times 18=450$
Run scored by $B=20 x=20 \times 18=360$
Run scored by $\mathrm{C}=16 \mathrm{x}=16 \times 18=288$
Runs scored by A, B and C respectively $=(450,360,288)$
17. (a) Let the total time $=8$ years.

Let the total capital $=20$ units

$$
\mathrm{A}: \mathrm{B}: \mathrm{C}
$$


According to the question $(5+8+44)$
20. (b) Total no. of divisible by 4 between 1 to 80

$$
\begin{aligned}
& 80=4+(n-1) 4 \\
& 80=4 n \Rightarrow n=20
\end{aligned}
$$

$\therefore$ Required probability $=\frac{{ }^{20} C_{2}}{{ }^{80} C_{2}}=\frac{19}{316}$
21. (c) As, $21=7 \times 3 ; 91=7 \times 13$;
$77=7 \times 11 ; 35=7 \times 5$;
But, $65=7 \times 9.28$
22.
(d) $4^{\wedge} 8 \&=-$
$4^{\wedge} 8 \&=-$ pair is not correct in keyboard

| $1!$ | $2 @$ | $3 \#$ | $4 \$$ | $5 \%$ |
| :--- | :--- | :--- | :--- | :--- |
| $6^{\wedge}$ | $7 \&$ |  | $8^{*}$ | $9(\# 0)$ |
| -- | $=+$ |  |  |  |

23. (d)

24. Here 2 different series of alphabets are there.
(a) PQRST
ABCDE PQRS ABCDE
PQRS
$A B C D$
$\mathrm{PQ} \quad \mathrm{R}$
ABCD
25. (b)
26. 



Therefore, S I N G $\Rightarrow 7$ 9 $\#$
27.
(e) $\mathrm{P} \times \mathrm{Q}$ means P is a father of Q . $Q+P$ means $Q$ is daughter of $R$
$R-T$ means $R$ is sister of $T$.
It is clear that $P$ is husband of $R$. If he
establish that T is either son.or daughter of $S$, then $P$ would be son-in-law
$T+S$ means $T$ is daughter of $S$.
$\mathrm{T} \div \mathrm{S}$ means T is son of S .
28. (e)


Points R, $P$ and $Q$ are in a straight line.
29. (b) Points O is 7 metres towards North of Point N .
38. (c)

30. (e) $\mathrm{A}>\mathrm{C}$ \& E
39. (b) Since some of Murphy radios are sold in that shop which sells high standard radios. Therefore, some of the Murphy radios are of high standard.
40. (a)


So, only conclusion I and III follows.
41. (c) Salvo: a simultaneous discharge of artillery or other guns in a battle.
42. (c) Penology: the study of the punishment of crime and of prison management.
43. (b) Tentative
44. (c) Surveillance
45. (c) As the rule goes 'Present Perfect Tense + $\ldots . . . .+$ Since + a particular point in time'. Hence replace 'from 1965 ' with 'since 1965'.
46. (b) There is a preposition related error. Absence of correct preposition is giving a wrong meaning of the sentence. Employees are expected to adhere to the rules laid down by the management not employees are expected to adhere the rules laid down by the management. Hence add 'to', before 'the rules'.

53. (b) The word Vivacious (Adjective) means : having a lively, attractive personality; energetic.
54. (b) The word Vanity (Noun) means : too much pride in your own appearance, abilities or achievements; arrogance. The word Humility (Noun) means : the quality of being humble.
55. (b) Idiom 'made away with' means: to escape with stolen thing, to run away
56. (b) The meaning of against the clock : in a great hurry to get something done before a particular time.
57. (c) 58. (b)
59. (c) Libertine is a person (man) who leads an immoral life. Similarly an altruist is a person who leads a selfless life.
60. (b) Simmer is to cook something just below the boiling point. Glide and drift means quick or steady movement. Drizzle is light rain whereas downpour is a sudden heavy rain. Stagnate is to stop something, say the flow of water. Gambol is to jump or run about in a lively way. So the correct relationship is drizzle : downpour, as drizzle precedes downpour as simmer is a situation of
47. (c) Raise $=$ to lift or move something to a higher level.
Rise = to move upward
Smoke was rising from the Chimney.
48. (a) Have $=$ had (Past) $=$ had (Past Participle)
49. (b) 'beside' is a preposition which means "next to" while "besides' is the other preposition that means "in addition to". So, option 'b' fits in the context.
50. (a) As 'been shows' that action is no more continuous and it has already been done. So "has" of second clause should be in simple past or we can say after the conjunction 'but', 'understood' used in 'past form' and a sentence/clause beginning in a past form also ends in the past form. Hence option ' $a$ ' is correct.

61 (a) 62 (a) 63 (a) 64 (d) 65 (a)
66. (a)
(a) 67
(b) 68
(a) 64 .
(d) 65 . (a)
71. (c) When a body is immersed in a fluid, the fluid exerts an upward force on it, called buoyant force.
and buoyant force $\propto$ density of fluid.
As the density of sea water is higher than that of the fresh water.
So extra buoyant force and ship will rise a little higher.
72. (c) In automobiles, convex mirror is used as a rear view mirror because the image of the vehicle formed is small in size due to this the field of view is increased and the driver of automobile can see the traffic over large area.
51. (a) 52. (d)
73. (d) On adding water, quicklime ( CaO ) gives a hissing sound and forms calcium hydroxide commonly known as slaked lime.
$\mathrm{CaO}+\mathrm{H}_{2} \mathrm{O} \rightarrow \mathrm{CCa}\left(\mathrm{OH}_{2}\right)+15000$ calories
74. (a) Vulcanisation is a process in which natural rubber is treated with $3-5 \%$ sulphur. It introduces sulphur bridges between polymer chains thereby increasing its tensile strength, elasticity and resistance to abrasion.
75. (b) Mushrooms are not able to manufacture their own food. A mushroom is the fleshy, spores having fruiting body of fungi. It is heterotrophic.
76. (a) Egg white are good easy way to add protein to any food. Egg albumin is a class of simple, water soluble proteins that are present in egg white.
77. (c) Under Article 148 of the Indian Constitution the Comptroller and Auditor General (CAG) of India is an authority who audits all receipts and expenditure of the Government of India and the state governments, including those of bodies and authorities substantially financed by the government. The CAG shall only be removed from office in like manner and on the like grounds as a judge of the Supreme Court of India :Article148(a)
The Comptroller and Auditor General shall not be eligible for further office either under the Government of India or under the Government of any State after he has ceased to hold his office:Article 148(d)
78. (d) Convention on the nationality of married women has been signed by India but not yet ratified. India signed the convention on $15^{\text {th }}$ May 1957.
79. (c) $74^{\text {th }}$ Amendment deals with Muncipalities and urban local bodies. The Finance Commission Constituted under 243-I shall review the Financial Position of Muncipalities.
80. (a) Under article 5 of the Indian Constitution Citizenship at the commencement of the

Constitution every person who has his domicile in the territory of India and
(a) who was born in the territory of India; or
(b) either of whose parents was born in the territory of India; or
(c) who has been ordinarily resident in the territory of India for not less than five years preceding such commencement, shall be a citizen of India.
81. (b) The Constitution (86th Amendment) Act, 2002 inserted Article 21-A in the Constitution of India to provide free and compulsory education of all children in the age group of six to fourteen years as a Fundamental Right. This is recognized in the International Covenant on Economic, Social and Cultural Rights as a human right that includes the right to free, compulsory primary education for all.
82. (c) The total elective membership of the Lok Sabha is distributed among States in such a way that the ratio between the number of seats allotted to each State and population of the State is, as far as practicable, the same for all States. The 84th Amendment to the Constitution (which was numbered as the 91st Amendment Bill before it was passed in Parliament) lifted the freeze on the delimitation of constituencies, as stipulated by the 42 nd Constitution amendment of 1976, and allowed delimitation within States on the basis of the 1991 Census.
83. (c) Fa-hien was a Chinese monk who travelled India during the age of Chandra Gupta Vikramaditya. He travelled during C 399-414. Fa-hien wanted to go to India to search for the treatises of the Vinaya Pitaka, the monastic rules of BUDDHISM. Travelling through Central Asia and Northwest India, Fa-hien reached northern India and then visited the holy Buddhist sites located in the Ganges valley: Kapilavastu, the birthplace of Buddha; Bodhgaya, the site of Buddha's enlightenment; Sarnath, where

Buddha preached his first sermon, and Kushinagara, the place of Buddha's nirvana.
84. (d) Lord Wellesley defeated Tipu Sultan in India and Napolean Bonaparte in Europe.
85. (a) Dayanand Saraswati founded the Arya Samaj which was an organization for teaching the true Vedic religion and also a social reform movement. He fought for equal rights for all and emphasized on social upliftment of women and the so-called lower caste. He denounced superstitions and condemned practices such as animal sacrifices.
86. (c) The Saka calendar used as the official civil calendar in the country is the National Calendar of India. The Saka calendar, often referred as the Hindu calendar is originally named as Saka Samvat. There are 12 months in Saka Calendar which are named as Vaisakha,Jyestha ,Asadha,Sravana, Bhadrapada, Asvina , Kartika Margasirsa, Pausa, Magh, Phalgura,Chaitra.
87. (d) All three CRISIL,CARE and ICRA are credit rating agencies
88. (c) Y. V. Reddy is the Chairman of Fourteenth Finance Commission of Indial CClO
89. (a) In 2011 Census, a person aged seven years and above who can both read and write in any language, is treated as 'literate'. In the Censuses prior to 1991, children below five years of age were treated as illiterates, but later, keeping in mind that the ability to read and write with understanding is not generally achieved until one has time to develop these skills, the defining age for the literate category was raised to seven in the Censuses of 2001 and 2011.
90. (c) Indian economist K. N. Raj drafted sections of India's first Five-Year Plan. Second FiveYear Plan (1956-61) was drafted by scientist and statistician P.C. Mahalanobis, and mainly focused on heavy industries and transportation, particularly in the public sector.
91. (c) Government receipts which create liability or reduce assets is called capital receipts and the receipts which neither create liability nor reduce assets of Government are called revenue receipts. Corporate tax receipt, dividends and profits and interest receipt are revenue receipts (increase income), but disinvestment receipt is capital receipt (reduces asset).
92. (b) The Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS) is an international legal agreement between the members of the World Trade Organization regarding setting standards for the regulation of intellectual property by national governments. It has 162 member nations and became effective on January 1, 1995.
93. (d) Real GDP or Gross Domestic Product (GDP) growth of India at constant prices in the year 2015-16 is estimated at 7.56 percent in comparison/to the growth rate of 7.24 percent in 2014-15. Real Gross Value Added growth at basic constant prices in 2015-16 is 7.3 per cent. Gross National Product is the total value of goods produced and Services provided by a country during a year.
94. (b) The Trans-Pacific Partnership (TPP) is a trade agreement between 12 Pacific Rim nations including Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore, the United States (until January 23, 2017) and Vietnam. These members account for 40 percent of global GDP. India is not a member of the TPP.
95. (b) Bitcoin is a digital currency and was invented on October 31, 2008 by an unidentified programmer, or group of programmers called Satoshi Nakamoto. It uses complex computer software for its generation called Bitcoin mining. Reserve Bank of India (RBI) does not allow the use of Bitcoins, and warned those investing in it.
96. (c) In 2016, the Union Government of India announced a Rs. 6,000 crore special package for the textile and apparel industry to create one crore jobs, mostly for women, in the next three years. The package included several tax and production incentives. The government also planned to bring in more flexibility in labor laws to increase productivity.
97. (a) 12th Five Year Plan (2012-2017) aimed at achieving growth rate of $8 \%$ by focusing on inclusive growth. The government aimed reducing poverty by 10 per cent during the plan. Skill Development

Strategies needed for increasing employment. Promoting regional balances will promote equal economic growth of all states.
98. (a) Most-favoured-nation (MFN) Clause under the WTO regime ensured that countries should not discriminate between their trading nations and also that national and international business entities get equal treatment. The clause forms the first article of the General Agreement on Tariffs and Trade (GATT). Reducing tariffs and non-tariff barriers is also highlighted by the clause.
99. (c) 100. (c)


