

COMBO - ଓଡ଼ିଶା
32,000- PYQ
ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
 ପୂର୍ବ 5 ବର୍ଷର **OSSSC, OSSC, OPSC**, ପୋଲିସ, **CT, B.ED**, ଅନ୍ୟ ସବୁ ପ୍ରଶ୍ନ
GK, ODIA, ENGLISH, , MATH, COMPUTER, Reasoning, Pedagogy

GK- ଓଡ଼ିଶାର
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
11,685- PYQ
ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ
EXPLANATION
OSSSC, OSSC, OPSC, Police SI /Constable, PEO, RI, Battalion, Fireman, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET & Other

ଓଡ଼ିଆ ବ୍ୟାକରଣ
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
4,343- PYQ
75- TEST
E-BOOK- PDF
OSSSC, OSSC, OPSC, POLICE, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET, OSSSC (PEO, RI, ARI & Other) & Other

ENGLISH- ଓଡ଼ିଶାର
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
4,582- PYQ
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କୋମ୍ପ୍ୟୁଟର- ଓଡ଼ିଶାର
ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ
2,353- PYQ
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EXPLANATION
OSSSC, OSSC, OPSC, Police SI & Constable, Battalion, PEO, RI, AMIN, JT, RHT & Other Exams

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1,900- PYQ
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 Anonymous Poll

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9%	180-160
16%	160-130
16%	130-100
5%	100-70
2%	70-50
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Script : ENGLISH

SAO 2022

DO NOT OPEN THE SEAL OF THE QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO.

Question Booklet Series Code :

C

Question Booklet Series No :

1363

Time Allowed : 120 minutes

Total Questions : 150

Maximum marks : 150

There shall be negative marking @ 0.25 mark per question for wrong / multiple answers.

Before answering any question, check the Booklet that it contains 16 pages and no page is missing, mutilated or repeated. In case of defect, get it replaced immediately.

INSTRUCTIONS FOR CANDIDATES

1. Fill in the OMR answer sheet, mentioning the Roll No. and other data as required. in the place(s) indicated therein, darken the appropriate circles in **blue or black ball point pen** only. Do not write any name / surname or put any symbol, sign, slogan, prayer or any mark or identification in the OMR answer sheet. Do not tamper with the bar-code or any other portion of the OMR answer sheet. **Any such act is liable to render the answer sheet unfit for evaluation.**
2. Correcting fluid, eraser, blade, books, textual material, script notes / loose paper, calculator, document, slide rules, log tables / electronic watches, smart watch, cell phone, pager, other electrical/ electronic devices etc, are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he / she shall be **expelled from the examination without any enquiry** as to whether the same was / were used by the candidate or not.
3. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, **you shall be awarded Zero mark.**
4. Answer must be given by completely darkening one of the four circles / ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question. For Answers not shown by properly darkening in **black / blue ball point pen**, no marks shall be awarded.
5. **No Rough work should be done on the OMR Answer Sheet**, Space for rough work has been provided in the Question Booklet itself.
6. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. **Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall / room shall make the candidate liable for penal action.**
7. Candidates may take with them the respective question-booklet after the examination is over.
8. Failure to comply with or violation of any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

SEAL

NX-1C/14

(Turn over)

Arithmetic

- Golu was obese, and hence he decided to stick to a diet regime. On Monday, he ate half Paratha. He ate half of what was left on Tuesday and so on. He followed this pattern for one week. If, one Paratha amounts to 100 calories, then what is the calorie intake of Golu during the week (7 days) ?
 (a) 99.22
 (b) 98.72
 (c) 97.66
 (d) 96.88
- A Yogi was born in 1840 B.C. He had lived one-third of his life as a boy, one-fifth of his life as a youth, one-fourth of his life as a man and the remaining 39 years as an old man. Which B.C. year did he die ?
 (a) 1660
 (b) 2020
 (c) 1680
 (d) 2000
- The ratio of Employees to Managers in an organisation is 7:3. 70% of the Employees and 30% of the Managers take lunch in the canteen. What % of total workforce takes lunch in canteen?
 (a) 63%
 (b) 53%
 (c) 58%
 (d) Cannot be determined
- A farmer has three children and 44 gold coins. He decides to give coins to his three children in the following ratio : $\frac{1}{3} : \frac{1}{6} : \frac{1}{9}$. The one who got highest number of coins, got how many coins ?
 (a) 20
 (b) 27
 (c) 24
 (d) 18
- If 20 boys and 20 girls eat 20 apples in 20 minutes, in how many minutes will one boy and one girl eat one apple ?
 (a) 2 minutes
 (b) 1 minute
 (c) 20 minutes
 (d) Cannot be determined

Logical Reasoning

- If in a code language 'RIPPLE' is written as 'FACCHB' and 'LIFE' is written as

'HAIB', then in the same code, 'PILLER' would be written as :

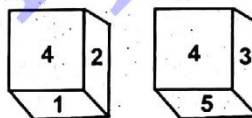
- CAHHBF
- CAHBHF
- FAHHBF
- CAHGBF

CAHHBF

- A clock gains 5 minutes every hour. How much angle will the second hand cover in one minute ?
 (a) 360°
 (b) 360.5°
 (c) 390°
 (d) 380°
- In the following number series, only one term is wrong. Find the wrong term.
 3 4 7 11 20 29 47 76
 (a) 7
 (b) 11
 (c) 20
 (d) 47

- In a year, which other month starts on the same day, on which March month starts ?
 (a) July
 (b) November
 (c) December
 (d) October

- Shown below are two positions of a dice -



If '3' is on the bottom face, then which number will be on the top face ?

- 4
- 5
- 2
- 1

- A cube of 16 cm edge, is divided into 64 small cubes of equal volume, what will be the measure of edge of each small cube ?

- 1 cm.
- 2 cm.
- 4 cm.
- 8 cm.

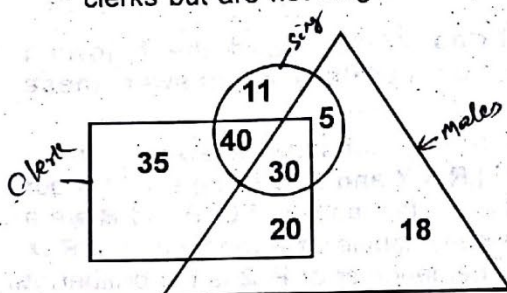
12. Which of the given options will make the given equation correct after interchanging the signs ?

$24 + 6 \times 3 \div 3 - 1 = 14$

(a) + and +
 (b) x and -
 (c) x and +
 (d) - and +

Handwritten work:
 $24 + 6 \times 3 - 3 = 24 + 18 - 3 = 39$
 $24 \times 3 + 3 - 1 = 72 + 3 - 1 = 74$

13. If singers are denoted by 'circle', clerk by 'rectangle' and males by 'triangle' and their proportionate numbers are depicted by the numbers given within the diagram in the area they are present, find out how many persons are male clerks but are not singers ?



- (a) 35
 (b) 20
 (c) 11
 (d) 18

(Q 14-16) Below are given two statements followed by two conclusions. You have to tell which of the following will follow ?

- (a) Only Conclusion I is correct
 (b) Only Conclusion II is correct
 (c) Either Conclusion I or II is correct
 (d) Neither Conclusion I nor II is correct.

14. Statements :

- I. All tents are cabins.
 II. All cabins are houses.

Conclusions :

- I. All tents are houses.
 II. All houses are tents.

15. Statements :

- I. All purses are ropes.
 II. No rope is basket.

Conclusions :

- I. No purse is basket.
 II. At least some purses are basket.

16. Statements :

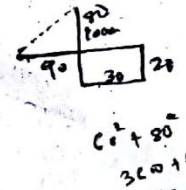
- I. Some weather are rain.
 II. Some summers are weather.

Conclusions :

- I. At least some summers are rain.
 II. At least some weathers are summers

17. A child is in search of his father. He moves 90 meters towards east, then turns right and moves 20 meters and again turn to his right and went to this uncle's house which is 30 meters away. His father was not there. From here he went 100 meters towards north and there he met his father in a lane. How far from his initial place did he meet his father (shortest distance) ?

- (a) 80 m
 (b) 100 m
 (c) 140 m
 (d) 260 m



18. Average of 15 numbers is 68. Average of first 8 numbers is 63 and average of last 8 numbers is 70. Find out the eighth number.

- (a) 44
 (b) 49
 (c) 56
 (d) 10

19. Sum of three numbers is 98. If the ratio of the first and second number is 2 : 3, and the ratio of second and third number is 5 : 8, then what is the second number ?

- (a) 30
 (b) 20
 (c) 58
 (d) 48

20. In a class, number of boys is three times the number of girls. Which number from the below given numbers cannot denote the total number of students in the class ?

- (a) 48
 (b) 44
 (c) 46
 (d) 40

21. Each vowel of the word SURROUND is changed with its previous letter alphabetically and each consonant with its next letter alphabetically. In this new arrangement, which letter will be second from the right end ?

- (a) N
(b) T
(c) S
(d) O

T T S S N T O E

22. If the series 4, 5, 8, 13, 14, 17, 22, is continued in the same pattern, which one of the following is not a term of this series ?

- (a) 31
(b) 32
(c) 33
(d) 35

1 3 5

23. Find the number different from others.

- (a) 345
(b) 133
(c) 225
(d) 216

24. In a certain code, the following alphabets are coded in a certain way by assigning numbers as follows :

A	D	I	L	M	N	O	R	W
1	2	3	4	5	6	7	8	9

Which word can be decoded from the following ?

1 6 3 5 1 4 9 7 8 4 2

- (a) Animal world
(b) Animal less world
(c) World of Animals
(d) Animals world

(Questions 25-27) Study the following information carefully to answer the given questions :

Codes :

- i. 'very large risk associated' is written as 'nu ta ro gi'
- ii. 'risk is very low' is written as 'gi se nu mi'
- iii. 'is that also associated' is written as 'ta mi po fu'
- iv. 'inherent risk also damaging' is written as 'fu nu di yu'

(All the codes are two letters codes only)

25. Which of the following represents 'risk also large' ?

- (a) nu fu po
(b) nu gi ro

- (c) ro po ta
(d) fu nu ro

26. What does the code 'di' stand for ?

- (a) Either 'damaging' or 'inherent'
(b) Inherent
(c) Also
(d) Low

27. What is the code for 'associated'?

- (a) mi
(b) ta
(c) ro
(d) gi

(Questions 28-30) Read the following information carefully to answer these questions :

A family consists of six members P, Q, R, X, Y and Z. Q is the son of R but R is not the mother of Q. P and R are a married couple. Y is the brother of R. X is the daughter of P. Z is the brother of P.

28. Who is the brother-in-law of R ?

- (a) P
(b) Z
(c) Y
(d) X

29. How many female members are there in the family ?

- (a) One
(b) Two
(c) Three
(d) Four

30. Which of these is a pair of brothers ?

- (a) P and X
(b) P and Z
(c) Q and X
(d) R and Y

31. In the name list of 48 students, Rohit's rank is 41th from bottom. Find his rank from top.

- (a) 12th
(b) 8th
(c) 7th
(d) 9th

32. In a post office, stamps of three different denominations of ₹ 7, ₹ 8 and ₹ 10 are available. The exact amount for which one cannot buy stamps is :

- (a) ₹ 19
- (b) ₹ 20
- (c) ₹ 23
- (d) ₹ 29

(Questions 33-34) In the following questions, select the correct option from the given alternatives :

33. $M \times N : 13 \times 14 :: I \times H : ?$

- (a) 9×8
- (b) 8×9
- (c) 9×10
- (d) 10×9

34. $STBP : 1920216 :: MNGO : ?$

- (a) 1314715
- (b) 1413715
- (c) 5173141
- (d) 3114715

(Questions 35-37) In each of the following questions, choose that set of members from the alternatives which is similar to the given set :

35. (1, 5, 7) :

- (a) (2,3,7)
- (b) (11,15,16)
- (c) (37,41,43)
- (d) (4,7,9)

36. (32, 24, 8) :

- (a) (26,32,42)
- (b) (34,24,14)
- (c) (24,16,0)
- (d) (42,34,16)

37. (81, 77, 69) :

- (a) (64,61,53)
- (b) (56,52,44)
- (c) (92,88,79)
- (d) (75,71,60)

38. If the statement '**most of the students are obedient**' is taken to be true ; which one of the following pair of statements can be claimed to be true ?

- 1. All obedient persons are students.
- 2. All students are obedient.

3. Some students are obedient.

4. Some students are not disobedient.

Codes :

- (a) 1 and 2
- (b) 2 and 3
- (c) 3 and 4
- (d) 2 and 4

39. If the proposition '**All thieves are poor**' is false, which of the following propositions can be claimed certainly to be true ?

Propositions:

- (a) Some thieves are poor
- (b) Some thieves are not poor
- (c) No thief is poor
- (d) No poor person is a thief

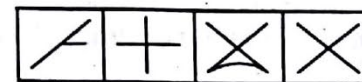
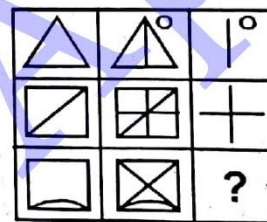
40. Find the missing number :

NEAT = 40, PLEAD = 50

REPLETE = ?

- (a) 60
- (b) 70
- (c) 80
- (d) 90

41. Select a suitable figure from the four alternatives that would complete the figure matrix :



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

- (a) 1
- (b) 2
- (c) 3
- (d) 4

(Questions 42-43) Eight students J, K, L, M, N, O, P and Q go on for a science exhibition in two batches of four each. J and K never go together. M and O do not go together. K and Q have to go together.

42. If K and L go in one batch, then which of the following can be in the other batch ?
 (a) J, M, O and P
 (b) J, M, Q and P
 (c) J, M, N and P
 (d) J, L, N and P
43. If M goes with Q, then who can be their other batch mates ?
 (a) J and P
 (b) L and P
 (c) K and N
 (d) K and O
44. Find the missing number in the table below :
- | | | |
|----|----|----|
| 2 | 3 | 4 |
| 6 | 7 | 8 |
| 10 | 11 | 12 |
| 58 | 74 | ? |
- (a) 91
 (b) 90
 (c) 96
 (d) 92
48. Who was recently appointed as Chairman of Atomic Energy Commission ?
 (a) Sekhar Basu
 (b) Ratan Kumar Sinha
 (c) Ajit Kumar Mohanty
 (d) Dr. Anil Kakodar
49. Ranjit Guha died in May 2023. In which field did he primarily distinguished himself ?
 (a) Teaching and Research in History
 (b) Teaching and Research in Economics
 (c) Music
 (d) Dance
50. Mohan Maharshi died in May 2023. In which field did he primarily distinguished himself ?
 (a) Theatre
 (b) Cinema
 (c) Athletics
 (d) Science
51. Former President Donald Trump was found liable for sexual assault in a civil case in May 2023. What was the amount of fine imposed on him ?
 (a) 5 Million Dollars
 (b) 6 Million Dollars
 (c) 9 Million Dollars
 (d) 10 Million Dollars

Current Affairs

45. For how many state assembly seats, was the election in Karnataka held on 10.05.2023 ?
 (a) 214
 (b) 224
 (c) 234
 (d) 244
46. In early May 2023, WHO declared that COVID-19 no longer qualified as a "Global Health Emergency". As per WHO, what is the number of people estimated to have died from COVID-19 so far ?
 (a) Around 10 million
 (b) Around 7 million
 (c) Around 3 million
 (d) Around 15 million
47. Who is the current Director General of WHO ?
 (a) Margaret Chan
 (b) T. A Ghebreyesus
 (c) Lee Jong-Wook
 (d) Gro Harlem Brundtland
52. Which Airline has filed plea for insolvency in early May 2023 ?
 (a) Go Air
 (b) Kingfisher
 (c) Jet Airlines
 (d) Sahara Airlines
53. Which North Eastern state was affected by violence and clashes between tribals and non-tribals in early May 2023 resulting in over 50 deaths ?
 (a) Manipur
 (b) Meghalaya
 (c) Nagaland
 (d) Mizoram
54. Imran Khan was arrested on 09 May 2023 from Islamabad. Which Pakistani agency effected his arrest ?
 (a) Punjab Police
 (b) Pakistan Army
 (c) Pakistan Rangers
 (d) None of these

55. SCO Foreign Minister's meet was held in India in May 2023. Where was this meeting held ?
 (a) Goa
 (b) Hyderabad
 (c) New Delhi
 (d) Bhubaneswar
56. World Chess Championship was conducted in April 2023 in Astana, Kazakhstan. Who emerged champion ?
 (a) Ding Liren
 (b) Ian Nepomniachtchi
 (c) Magnus Carlsen
 (d) Vishwanathan Anand
57. In which of the following countries around 80% of new car sales are electric vehicle ?
 (a) USA
 (b) England
 (c) France
 (d) Norway
58. Who is Jyotirmayee Mohanty ?
 (a) A scientist at BARC, Mumbai
 (b) An Odishi dancer
 (c) An author of Odia literature
 (d) A Sportsperson
59. "Adwitiya" an Odia film was awarded in two categories in International Film Festival in Mauritius recently. What is the subject-matter of the film ?
 (a) Aska police
 (b) Odisha handloom
 (c) Odisha handicrafts
 (d) Cyclone Fani
60. Where is Chheligada Multipurpose Irrigation Project located ?
 (a) Gajapati District
 (b) Ganjam District
 (c) Bolangir District
 (d) Koraput District
61. Who was recently appointed Chairman of Life Insurance Corporation of India ?
 (a) Sidharth Mohanty
 (b) M. R. Kumar
 (c) T. S. Vijayan
 (d) Ipe Mini
62. Who is Minister for Electronics and Information Technology of Odisha ?
 (a) Ashok Chandra Panda
 (b) Tusharkanti Behera
 (c) Rohit Pujari
 (d) Rajendra Dholakia
63. Indian Army has decided to have common uniform for specified rank officers from August 2023. Which rank officers will be covered by such decision ?
 (a) Brigadier and above
 (b) Major General and above
 (c) Brigadier and below ranks
 (d) Up to the rank of Colonel
64. 68th National Film Awards were presented on 30th September, 2022. Who received Swarna Kamal for "Best Direction" ?
 (a) Ayyappanum Koshidum; Sachidananda K. R.
 (b) Bahattar Hoorain; Sanjay Puran Singh Chauhan
 (c) URI, The Surgical Strike; Aditya Dhar
 (d) Jayaraj; Bhaynakan
65. 68th National Film Awards were presented on 30th September, 2022. Which film received Swarna Kamal for "Best Popular Film Providing Wholesome Entertainment" ?
 (a) Tanhaji
 (b) Maharshi
 (c) Badhai Ho
 (d) Padmavat
66. When is the next FIH Men's Hockey World Cup scheduled to be organised ?
 (a) 2024
 (b) 2025
 (c) 2026
 (d) 2027
67. Who received Sahitya Akademi Award for English Literature in 2022 ?
 (a) Anuradha Roy
 (b) R. K. Narayan
 (c) Namita Gokhale
 (d) Arundhati Subramanyam
68. Who is the Chairperson of Lokayukt, Odisha ?
 (a) Justice Ajit Singh
 (b) Justice Bijay Kumar Nayak
 (c) Justice Shatrughana Pujari
 (d) Justice Muralidhar

69. Which country did CM of Odisha Shri Naveen Patnaik, visit in April 2023 to attract foreign investment ?
- (a) Japan
(b) UAE
(c) UK
(d) Italy
70. To which place is Indonesia relocating its capital from Jakarta ?
- (a) Medan
(b) Malang
(c) Tangerang
(d) Borneo (Nusantara)
71. Who is President of Hockey in India ?
- (a) Mohd. Mushtaque Ahmed
(b) Gyanendra Ningombam
(c) Mariamma Koshy
(d) Dilip Tirkey
72. Who holds the Presidency of the Shanghai Co-operation Organisation (SCO) in 2023 ?
- (a) China
(b) Kazakhstan
(c) Uzbekistan
(d) India
73. Odisha's share in India's manufacturing GVA at current prices was 2.9% in 2011-12. What is Odisha's share in India's manufacturing GVA at current prices in 2022-23 ?
- (a) 4%
(b) 4.2%
(c) 4.4%
(d) 4.5%
74. What was the share of Odisha in the Chromite mineral production in India in 2021-22 ?
- (a) 100%
(b) 90%
(c) 80%
(d) 70%
75. Share of industry sector in G(S)VA of India in 2022-23 (AE) was 28.5%. What was the share of Industry sector in G(S)VA of Odisha during the same period ?
- (a) 41.3%
(b) 38.3%
(c) 33.3%
(d) 28.3%

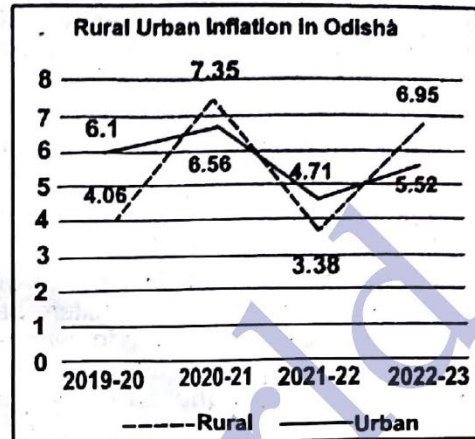
Computer and Internet Awareness

76. Which of the following is not a type of bus in computer organization ?
- (a) Data Bus
(b) Address Bus
(c) Control Bus
(d) Memory Bus
77. Which of the following is the highest unit of storage in computer field ?
- (a) Exabyte
(b) Zettabyte
(c) Yottabyte
(d) Gigabyte
78. Which mouse technique is used for accessing properties of any objective ?
- (a) Dragging
(b) Dropping
(c) Right clicking
(d) None of these
79. _____ has the shortest access time.
- (a) Virtual memory
(b) Secondary memory
(c) Cache memory
(d) All of these
80. The Basic Input/Output System (BIOS) is stored in :
- (a) RAM
(b) ROM
(c) ALU
(d) Peripherals
81. What is the use of bridge in network ?
- (a) To connect LANs
(b) To control network speed
(c) To separate LANs
(d) All of these
82. Which of the following can act as a firewall ?
- (a) Host server
(b) Web server
(c) Application server
(d) Proxy server
83. IPv6 addresses have a size of :
- (a) 64 bits
(b) 128 bits
(c) 256 bits
(d) 512 bits

84. Cookie is created and sent by :
- Web browser
 - Application server
 - Web server
 - Database server
85. Windows explorer is an example of _____
- An operating system
 - A programming language
 - A file manager
 - A web browser
86. What is the name given to those applications that combine text, sound, graphics, motion video, animation ?
- Multimedia.
 - Maxomedia
 - Motionware
 - Anigraphics
87. Select shortcut key to display or check Hyperlink Fields in a Word Document.
- Ctrl + Shift + F9
 - Shift + F9
 - Ctrl + F
 - None of these
88. Which is the Default Page Orientation of M.S. WORD ?
- Portrait
 - Long Sides
 - Landscape
 - Double Long Side
89. Internal name for the old Netscape browser was _____
- Mozilla Firefox
 - Google Chrome
 - Opera Mini
 - Safari
90. A _____ website which is designed to look almost like the actual website is a form of phishing attack.
- Real
 - Local
 - Global
 - Fake

Data Interpretation

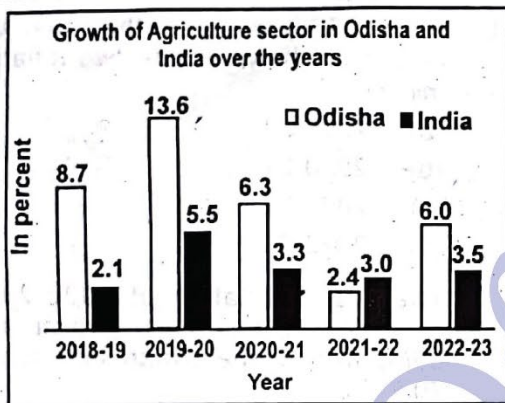
(Questions 91-95) The line graph below, shows the Rural and Urban inflation in Odisha for four years. Study the graph carefully and answer the questions given below :



91. In which year was the absolute difference between the two inflation minimum ?
- 2019-20
 - 2020-21
 - 2021-22
 - 2022-23
92. The Rural Inflation of 2022-23 is approximately how much percent more compared to the Urban Inflation of 2020-21 ?
- 6%
 - 10%
 - 15%
 - 12%
93. What is the ratio between Urban Inflation of 2022-23 and 2021-22 ?
- $\frac{188}{169}$
 - $\frac{184}{157}$
 - $\frac{185}{167}$
 - $\frac{174}{157}$
94. Which of the following is certainly true about trends shown in the graph ?
- Rural Inflation has linearly grown over the given years.
 - Rural Inflation has always been lower than Urban Inflation in the given years.
 - Compared to Rural Inflation, Urban Inflation changes at a slower rate.
 - Compared to Urban Inflation, Rural Inflation changes at a slower rate.

95. In which year was the change in Rural Inflation highest compared to that of previous year ?
 (a) 2019-20
 (b) 2020-21
 (c) 2021-22
 (d) 2022-23

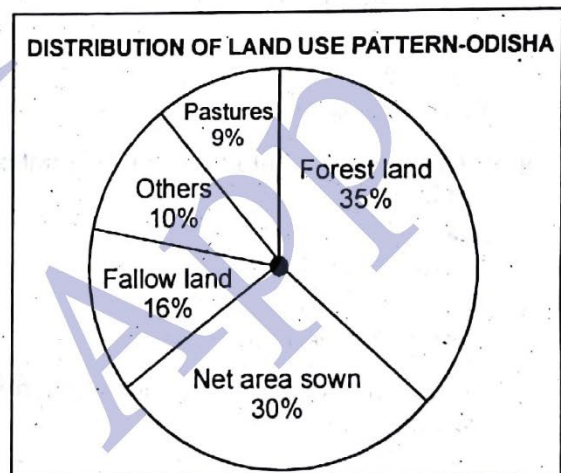
(Questions 96-100) The Bar-graph given below shows the growth of Agriculture sector (in percent) in Odisha and India for five years, from 2018-19 to 2022-23. Study the graph carefully and answer the questions given below :



96. In which year, the difference between agricultural growth rate of Odisha and India was maximum ?
 (a) 2018-19
 (b) 2019-20
 (c) 2020-21
 (d) 2022-23
97. Which of the following statements can be certainly inferred from the graph ?
 (a) In all the given years, Odisha has performed better than India, in terms of growth rate of Agricultural sector.
 (b) Agricultural production has dropped in the year 2021-22 for both Odisha and India.
 (c) Agricultural production was maximum in the year 2019-20.
 (d) Despite fluctuations in growth rate, Agricultural production has shown an increasing trend for both Odisha and India.
98. What is the ratio of Agricultural growth rate of Odisha in 2020-21 to that of India in 2018-19 ?
 (a) 5 : 2
 (b) 3 : 1

- (c) 1 : 3
 (d) 2 : 5
99. What is the ratio of Agricultural growth rate of Odisha in 2019-20 to that of 2022-23 ?
 (a) 34 : 15
 (b) 15 : 34
 (c) 2 : 1
 (d) 1 : 2
100. If Agricultural production of Odisha in 2018-19 was 100 million tons, then what would be the production in 2019-20 (in million tons) ?
 (a) 108.7
 (b) 104.9
 (c) 113.6
 (d) Cannot be determined

(Questions 101-105) The Pie-chart printed below shows the distribution of land use pattern in the state of Odisha. Study the chart carefully and answer the questions that follow :



101. What is the central angle formed by the Fallow land segment ?
 (a) 60°
 (b) 75.6°
 (c) 67.5°
 (d) 57.6°
102. If Odisha converts all Fallow lands into Forest area, then what would be the new central angle formed by the Forest area segment ?
 (a) 186.3°
 (b) 163.8°
 (c) 183.6°
 (d) 138.6°

103. If the net sown area of Odisha is 90 lakh hectares, then what is the area of land used as Pastures (in lakh hectares) ?
 (a) 9
 (b) 21
 (c) 30
 (d) 27
104. Which of the following statements can be inferred from the Pie chart ?
 (a) Forest land area is greater than the combined land area of Pastures, Fallow land and Others.
 (b) Net area sown is greater than the combined land area of Pastures, Fallow land and Others.
 (c) More than half of land area in Odisha is covered by Forest area.
 (d) Forest land area is equal to the combined land area of Pastures, Fallow land and Others.
105. What is the ratio of land area of Fallow land and Net area sown ?
 (a) 6 : 11
 (b) 8 : 15
 (c) 4 : 3
 (d) 16 : 29

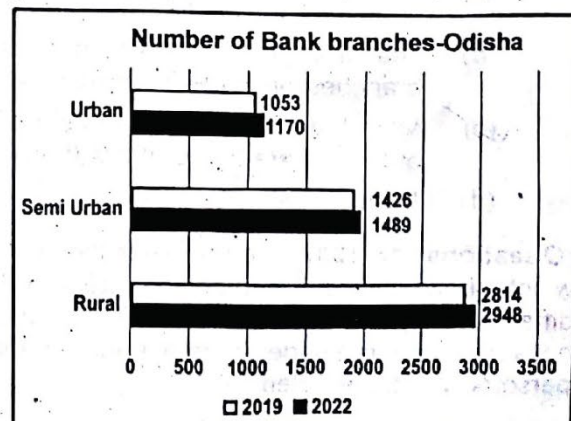
(Questions 106-110) The table below shows the values of major export products from Odisha. Study the table carefully and answer the questions given below :

Major Export Products from Odisha (Values in INR crore)			
Product	2019-20	2020-21	2021-22
Metallurgical	25000	38000	86000
Engineering	5500	7800	15000
Minerals	20000	32000	19000
Marine	5000	5200	5800
Electronics	4500	4700	5200
Total	60000	87700	131000

106. In the year 2019-20, the value of export of Metallurgical products constitute how much percentage (approximately) of the total value of exports in that year ?
 (a) 45%
 (b) 25%
 (c) 42%
 (d) 38%

107. Which of the following statements can be inferred from the above table ?
 (a) The value of export of each product have constantly increased from 2019-20 to 2021-22.
 (b) In the year 2021-22, more than two-third of value of export came from Metallurgical products.
 (c) In the year 2020-21, more than one-third of value of exports came from Mineral products.
 (d) None of these
108. What was the ratio of export value of Marine products in 2021-22 to that in 2019-20 ?
 (a) 9 : 5
 (b) 25 : 29
 (c) 29 : 25
 (d) 5 : 9
109. What was ratio of export value of Electronic products and Engineering products in 2019-20 ?
 (a) 9 : 11
 (b) 11 : 9
 (c) 21 : 5
 (d) 15 : 9
110. In 2019-20, the export value of Mineral products is how many times the export value of Marine products ?
 (a) Two times
 (b) Three times
 (c) Four times
 (d) Five times

(Questions 111-115) The Bar-graph given below shows the number of Bank branches in Odisha in two years, 2019 and 2022. Study the graph carefully and answer the questions given below :



111. What was the fractional increase in the number of Bank-branches in Urban area in the given period ?

- (a) $\frac{1}{9}$
 (b) $\frac{1}{11}$
 (c) $\frac{1}{12}$
 (d) $\frac{1}{13}$

112. What was the approximate percentage increase in the number of Bank branches in all the areas combined, from 2019 to 2022 ?

- (a) 8%
 (b) 6%
 (c) 4%
 (d) 9%

113. In the year 2022, from which area, the Bank earns most of its profits ?

- (a) Rural
 (b) Semi-urban
 (c) Urban
 (d) Cannot be determined

114. In which area, the percentage increase in number of Bank branches between 2019 and 2022 is highest ?

- (a) Rural
 (b) Semi-urban
 (c) Urban
 (d) Cannot be determined

115. Which of the following statements can be inferred from the graph ?

- (a) More than half of total number of branches are in Non-rural areas
 (b) Less than half of total number of branches are in Rural areas
 (c) More than half of total number of branches are in Rural areas
 (d) None of these

(Questions 116-120) Given below is the table which shows the total number of voters in 5 different villages, percentage of voters who did not vote and percentage of female-out of total persons who have voted :

Villages	Total Voters	% of voters who did not vote	% of females out of total persons who have voted
A	20000	12%	40%
B	18000	13%	60%
C	16000	20%	45%
D	13500	10%	30%
E	22500	8%	40%

116. Total people who have not voted from village A and C together is what % of total males who have voted from these village ?

- (a) $17\frac{2}{5}\%$
 (b) $31\frac{9}{11}\%$
 (c) $20\frac{2}{5}\%$
 (d) $13\frac{14}{17}\%$

117. What is the ratio of males who have voted from village D and E together to the females who have voted from village D and E together ?

- (a) 63 : 43
 (b) 93 : 53
 (c) 73 : 33
 (d) 82 : 23

118. What is the difference between number of males from village A who have voted and females from village D who have voted ?

- (a) 6020
 (b) 4200
 (c) 6300
 (d) 6915

119. If ratio of male to female who do not vote is 5:3 from village C then what is the ratio of total male voters and total female voters from village C ?

- (a) 113 : 87
 (b) 96 : 53
 (c) 83 : 43
 (d) 104 : 101

120. What is the average number of voters who have not voted from village A, C and D together ?

- (a) $1526\frac{1}{3}$
- (b) $1820\frac{2}{3}$
- (c) $2316\frac{2}{3}$
- (d) $1015\frac{3}{5}$

Arithmetic

121. What least number must be added to 1056, so that the sum is completely divisible by 23 ?

$\frac{1056}{23} = 45$
 $\frac{1056}{23} = 45$
 $\frac{1056}{23} = 45$

- (a) 2
- (b) 3
- (c) 18
- (d) 21

122. The difference between simple interest and compound interest on ₹ 1200 for one year at 10% per annum reckoned half-yearly is :

$\frac{1200 \times 10 \times 1}{100} = 120$
 $\frac{1200 \times 10 \times 1}{100} = 120$

- (a) ₹ 2.50
- (b) ₹ 3
- (c) ₹ 3.75
- (d) ₹ 4

123. 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work, to empty the tank in 1 day ?

$\frac{3 \times 8 \times 2}{4 \times 1} = 12$

- (a) 9
- (b) 10
- (c) 11
- (d) 12

124. A and B started a business in partnership investing ₹ 20,000 and ₹ 15,000 respectively. After six months, C joined them with ₹ 20,000. What will be B's share in total profit of ₹ 25,000 earned at the end of 2 years from the starting of the business ?

$\frac{20000 \times 24}{20000 \times 6 + 15000 \times 18 + 20000 \times 18} \times 25000 = 9000$

- (a) ₹ 7500
- (b) ₹ 9000
- (c) ₹ 9500
- (d) ₹ 10,000

125. A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there ?

- (a) 10
- (b) 12
- (c) 14
- (d) 16

126. Abdul buys an old scooter for ₹ 4700 and spends ₹ 800 on its repairs. If he sells the scooter for ₹ 6600, his gain percent is :

- (a) 10%
- (b) 12%
- (c) 18%
- (d) 20%

127. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is :

- (a) 50 km
- (b) 56 km
- (c) 70 km
- (d) 80 km

$\frac{14x - 10x}{10} = 20$
 $4x = 200$
 $x = 50$

128. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person ?

- (a) 76 kg
- (b) 76.5 kg
- (c) 85 kg
- (d) Data inadequate

129. Today is Varun's birthday. One year, from today, he will be twice as old as he was 12 years ago. How old is Varun today ?

- (a) 20 years
- (b) 22 years
- (c) 25 years
- (d) 27 years

$x + 1 = 2(x - 12)$
 $x + 1 = 2x - 24$
 $x = 25$

130. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is :

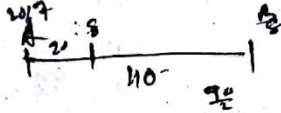
- (a) 101
- (b) 107
- (c) 111
- (d) 185

$\frac{4107}{37} = 111$



131. Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet ?

- (a) 9 a.m.
- (b) 10 a.m.
- (c) 10:30 a.m.
- (d) 11 a.m.



132. What is the four-digit number in which the first digit from left is $\frac{1}{4}$ of the second, the third is the sum of the first and second, and the last is two times the second ?

- (a) 1854
- (b) 1458
- (c) 1548
- (d) 8541

133. $\{(476 + 424)^2 - 4 \times 476 \times 424\} = ?$

- (a) 2906
- (b) 3116
- (c) 2704
- (d) 2904

$238 - 212 = 26$
 $26^2 = 676$

134. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained in the container ?

- (a) 26.34 litres
- (b) 27.36 litres
- (c) 28 litres
- (d) 29.16 litres

$10 - 9 = 1$
 $10 - 9 = 1$
 $10 - 9 = 1$
 $100 - 99 = 1$
 $\frac{329}{100} = 3.29$

135. Three friends had dinner at a restaurant. When the bill was received, Amita paid $\frac{2}{3}$ as much as Veena paid and Veena paid $\frac{1}{2}$ as much as Tanya paid. What fraction of the bill did Veena pay ?

- (a) $\frac{1}{3}$
- (b) $\frac{3}{11}$
- (c) $\frac{12}{13}$
- (d) $\frac{5}{8}$

$T = 12$
 $V = 6$
 $A = 4$

136. On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004 ?

- (a) Tuesday
- (b) Monday
- (c) Sunday
- (d) Wednesday

137. On a certain island, 5% of the 2000 inhabitants are one legged and half of the others go barefoot. What is the least number of shoes needed in the island, if one pair is counted as two shoes ?

- (a) 1900
- (b) 4000
- (c) 2000
- (d) 2100

138. A yellow light flashes 4 times per minute and a green light flashes 6 times in two minutes at regular intervals. If both lights start flashing at the same time, how many times do they flash together in each hour ?

- (a) 50
- (b) 60
- (c) 40
- (d) 30

$60 \times 2 = 120$

139. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:

- (a) 16 hours
- (b) 18 hours
- (c) 20 hours
- (d) 24 hours

$10 \times 14 = 140$

140. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether ?

- (a) 106
- (b) 104
- (c) 108
- (d) 105



141. A driver knows four different routes from Bhubaneswar to Brahmapur. From Brahmapur to Koraput he knows three different routes ; and from Koraput to Malkangiri, he knows two different routes. How many routes does he know from Bhubaneswar to Malkangiri ?

- (a) 4
- (b) 8
- (c) 12
- (d) 24

142. In a regular week, there are 5 working days and for each day, the working hours are 8 hr. A man gets ₹ 2.40 per hour for regular work and ₹ 3.20 per hour for overtime. If he earns ₹ 432 in 4 weeks, then how many hours does he worked for ?

- (a) 160
- (b) 175
- (c) 180
- (d) 195

Handwritten calculation for Q142:
 $2.40 \times 20 \times 5 \times 4 = 480$
 $432 - 480 = -48$
 $48 / 3.20 = 15$
 $15 \times 8 = 120$
 $480 - 120 = 360$
 $360 / 8 = 45$
 $45 + 120 = 165$

143. Two people enter a race in which one runs to a point and comes back to the starting line. Anil runs at a speed of 20 mph to and from the point. Sunil runs to the point going at 10 mph and comes back from the point at 30 mph. Then, who won the race ?

- (a) Anil
- (b) Sunil
- (c) Both reach at the same time
- (d) None of these

144. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through :

- (a) 145°
- (b) 150°
- (c) 155°
- (d) 160°

Handwritten calculation for Q144:
 $30 \times 5 = 150$
 $150 + 5 = 155$

145. Which one of the following can't be the square of a natural number ?

- (a) 32761
- (b) 81225
- (c) 42437
- (d) 20164

146. In a city, 40% of the adults are illiterate while 85% of the children are literate. If

the ratio of the adults to that of the children is 2 : 3, then what percent of the population is literate ?

- (a) 20%
- (b) 25%
- (c) 50%
- (d) 75%

Handwritten calculation for Q146:
 A : C
 200 : 300
 180 : 255
 $330 / 435 = 75\%$

147. A car owner buys petrol at ₹ 7.50, ₹ 8 and ₹ 8.50 per litre for three successive years. What approximately is the average cost per litre of petrol if he spends ₹ 4000 each year ?

- (a) ₹ 7.98
- (b) ₹ 8
- (c) ₹ 8.50
- (d) ₹ 9

148. The percentage profit earned by selling an article for ₹ 1920 is equal to the percentage loss incurred by selling the same article for ₹ 1280. At what price should the article be sold to make 25% profit ?

- (a) ₹ 2000
- (b) ₹ 2200
- (c) ₹ 2400
- (d) Data inadequate

Handwritten calculation for Q148:
 $1920 - 1280 = 640$
 $640 / 1280 = 50\%$
 $1280 \times 1.25 = 1600$

149. A fort had provision of food for 150 men for 45 days. After 10 days, 25 men left the fort. The number of further days for which the remaining food will last, is :

- (a) 29
- (b) 37
- (c) 42
- (d) 54

150. In an entrance exam, a student has to attempt 250 questions in 4 hours. Out of these 250 questions, 50 questions are on Quantitative Ability (QA). How many minutes should be spent on QA section if his mentor has suggested him that he must spend twice as much time on each QA problem as spent for every other question?

- (a) 100
- (b) 80
- (c) 75
- (d) 90