



Odisha OSSC JE Civil Pre Paper 4 June 2023

SCRIPT: ENGLISH

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

D M F 2022

Question Booklet Series Code :



Question Booklet Series No:

09288

Time Allowed: 150 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 reports. 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 After the examination and separate the Original Copy and Candidate's Copy of the Two Part OMR perforation and separate of the Invigilator and handover the Original Copy and Candidate's Copy of the Two Part OMR perforation and separate the Invigilator and handover the Original Copy to the Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Answer sheet may be taken to Answer Sneet in the plant of the OMR Answer sheet may be taken by the candidate. Invigilator. The Candidate's Copy of the OMR Answer Sheet to the candidate. Invigilator. The Candidate original copy of the OMR Answer Sheet to the Invigilator Failure to hand over the examination hall room shall make the candidate list. Failure to hand over the candidate liable for penal 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 Failure to comply with and action as deemed proper shall be taken.

(Turn over)

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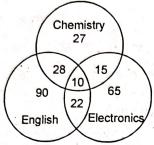


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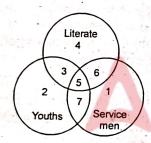


Logical Reasoning

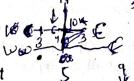
1. In the Venn diagram below, the number of those candidates is given who passed in Chemistry, Electronics and English. Total number of candidates who appeared for the examination was 600. Find the percentage of candidates who passed in at least two subjects?



- (a) 12.5%
- (b) 1.25%
- (c) 12.05%
- (d) 12%
- 2. Study the figure given below and find those youth who are in service but not literate:



- (a) Only 7
- (b) 3 or 4
- (c) 6 or 4
- (d) 2 or 5 or 7
- 3. Rajesh goes 10 km towards North, from there he goes 6 km towards South, then he goes 3 km towards East. Find out in which direction and how far is he from the starting point?
 - (a) 7 km, West
 - (b) 7 km, East
 - (c) 5 km, West
 - (d) 5 km, North-East



(Q. 4-5) Study the following information carefully and answer the questions :

Point D is 14 meters West of Point A. Point B is 4 meters South of Point D. Point F is 9 meters South of Point D. Point E is 7 meters

East of Point B. Point C is 4 meters North of Point E. Point G is 4 meters South of Point A.

- 4. Which of the following points are in a straight line?
 - (a) D, E, A
 - (b) E, G, C
 - (c) D, B, G
 - (d) E, G, B
- 5. What is the direction of Point A with respect to Point C?
 - (a) East
 - (b) West
 - (c) North
 - (d) South
- 6. In a certain code language '123' means 'bright little boy', '145' means 'take big boy' and '637' means 'beautiful little flower'. Which digit in that language means 'bright'?
 - (a) 1 15 Brill 2
 - (b) 2 ; fact 4:
 - (c) 3 6 = hearth
 - (d) 4
- 7. A family has a man, his wife, their four sons and their wives. The family of every son also has 3 sons and one daughter. Find out the total number of male members in the whole family.
 - (a) 4
 - (b) 8
 - (c) 12
 - (d) 17
- M- W
- If 'P + Q' means 'P is the father of Q';
 'P × Q' means 'P is the brother of Q';
 'P Q' means 'P is the mother of Q',
 then which of the following is definitely
- true about C A + B?
 (a) B is the son of A
- (b) A is the son of C.
- (c) B is the father of A
- (d) C is the mother of B

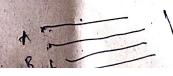
(Q.9-12) Study the following information carefully and answer the questions given below:

All the roads of a city are either perpendicular or parallel to one another. The roads are all straight. Roads A, B, C, D and E are parallel to one another. Roads G, H, I, J, K, L and M are parallel to one another.

- (I) Road A is 1 km east of road B.
- (II) Road B is $\frac{1}{2}$ km west of road C.

MV - 1D/15

(2)



Col





ge f

- Road D is 1 km west of road E. (111)
- Road G is $\frac{1}{2}$ km south of road H. (IV)
- Road I is 1 km north of road J. (V)
- Road K is $\frac{1}{2}$ km north of road L. (VI)
- Road K is 1 km south of road M. (VII)
- Which is necessarily true? 9.
 - E and B intersect
 - D is 2 km west of B (b)
 - (c) D is at least 2 km west of A
 - (d) M is 1.5 km north of L
- 10. If road E is between B and C, then distance between A and D is:
 - $\frac{1}{2}$ km (a)
 - (b) 1 km
 - 1.5 km (c)
 - 1.5 to 2 km (d)
- Which of the following possibilities would 11. make the roads coincide?
 - L is ½ km north of I (a)
 - C is 1 km west of D (b)
 - I is $\frac{1}{2}$ km north of K (c)
 - E and B are ½ km apart (d)
- If K is parallel to I and K is $\frac{1}{2}$ km south of 12. J and 1 km north of G, which two roads would be $\frac{1}{2}$ km apart?
 - I and K (a)
 - (b) J and G
 - I and G (c)
 - M and J (d)

(Q.13-14) Read the following information carefully and answer the questions given below it:

Alka is older than Mala. Gopal is older than Mala but younger than Alka. Kapil is younger than Ram and Mala. Mala is older than Ram.

- Whose age is between Gopal and Ram?
 - Mala (a)

- Kapil (b)
- Alka (c)
- patry
- None of these (d)
- Whose age is between Mala and Kapil? 14.
 - Gopal (a)
 - Ram (b)
 - (c)
 - None of these (d)



(Q. 15-16) Some statements followed by some conclusions are given below in each of the question. You are required to check the validity

of each of the conclusion on the basis of the given statements and to mark your answer choice accordingly.

- If only Conclusion I follows (a)
- If only Conclusion II follows (b)
- If either I or II follows (c)
- If both I and II follow (d)

Statements: 15.

- Some squares are circles. (1)
- No circle is a triangle. (II)
- (III)No line is a square.

Conclusions:

- All squares can never be triangles. **(l)**
- Some lines are circles. (II)

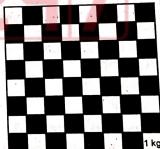
Statements: 16

17.

- All songs are poems. (I)
- All poems are rhymes. (II)
- No rhyme is a paragraph. (III)

Conclusions:

- No song is a paragraph.
- No poem is a paragraph. (II)
- There is a standard 8 × 8 chess-board. Each of its 64 square is assigned a weight. These weights are assigned in such a manner that the weight of a square is an average of the weight of the square that it is surrounded by. If the weight assigned to the rightmost bottom corner square is 1 kg. Then, what is the heaviest weight assigned among these blocks?



- (a)
- (b) 5 kg
- 8 kg (c)
- (d) 1 kg
- 18. If the positions corresponding to the multiples of 5 in the English alphabet are replaced by symbols and that of multiples of 7 by digits, how many alphabets will be left?
 - (a)
 - (b) 17
 - (c)





come		(b) Hash Table
19. In the following series of letters, some definite order determines, which of the definite order determines, which of the definite order in the correct order?		(c) Graph
definite order determines, which are a set two letters in the correct order?		(d) Flowchart
AJKTUBILSVCHMRWDGNQ	27.	Which of the following chartest key is
XEFO??		Which of the following shortcut key is used to stop the slide show in
(a) PY		PowerPoint ?
(b) PZ		(a) Esc key
(c) YZ		(b) Ctrl + O
(d) ZA		(c) Ctrl + N
in a substitution of the six of		(d) Ctrl + K
words and find the odd one out.	-	그 [[[하다 아이 사람은 그들이 모든 그리는 모든 10] [10]
(a) EIWNTR WINFEL	28.	The state of the following is the state were
THE LIMPOME GUMMER		to insert a new slide between the current
(c) PIGRSN SPRINY		PowerPoint presentations ?
(d) LCUOD CLOYD.		(a) Ctrl + N
		(b) Ctrl + K
21. In the numbers from 100 to 1000, how		(c) Ctrl + M
many times digit 1 comes at the ten's place?		(d) Ctrl + O
(a) 9 $\text{MIN} = 9$	29.	You can convert existing Excel
(b) 10 110 (d)		worksheet data and charts to an HTMI
(c) 90	•	document by using :
(d) 900 ·		(a) FTP wizard
		(b) Internet assistant wizard
Computer and Internet Awareness		(c) Intranet wizard
22. Whenever the data is found in the cache		(d) Import wizard
memory it is called as	00	
(a) HIT	30.	Which of the cell pointer indicates you that you can make selection in Excel 3
(b) MISS	Cille	that you can make selection in Excel?
(c) FOUND	_	(a) Doctor's symbol (Big Plus)
(d) ERROR	-	(b) Small thin plus icon
23. A program that reads each of the	7	(c) Mouse Pointer with anchor at the tip
ilibuluctions in mnemonic form and		(d) None of these
translates it into the machine-language equivalent is called :		
(a) Machine language	31.	What is landscape?
. (b) Assembler		(a) Page Orientation
(c) Interpreter	وأرية أو	(b) Paper Size
(d) C program		(c) A Font Style
	ATT.	(d) Page Layout
24. What does USB stand for ?	32.	
(a) Universal Signal Board	02.	What shortcut key is used to split a table in MS Word in Windows?
(b) Universal Signal Bus		(a) Ctrl + Shift + Enter
(c) Universal Serial Bus	*	
(d) Universal Serial Board		
25. Convert the binary equivalent 10101 to		- Indi
its decimal equivalent :		(d) Alt + Shift + Enter
(a) 21 $(a_1)_{1} = 10^{10}$	33.	A cookie :
(b) 12 $(10 01)^{2}$		(a) Stores information about the
(c) 22 10 0 11		user's web activity
(d) 31	,	(b) Stores software developed by the
26. A is a diagram that I		. 4961
the flow of a program.		(c) Stores the password of the user
(a) Algorithm		(d) Stores the commands used by the
		user user





- 34. A network that is connected to the Internet, but uses encryption to scramble all the data sent through the internet is called:
 - (a) My Network
 - (b) Virtual Private Network
 - (c) Social Network
 - (d) Internet Service Provider
- 35. You can merge the main document with data source in Excel. In mail merge operation, Word is usually:
 - (a) Server
 - (b) Source
 - (c) Client
 - (d) None of these
- 36. The keys from F1 to F12 are called:
 - (a) Toggle keys
 - (b) Function keys
 - (c) Cursor control keys
 - (d) Alphanumeric keys
- 37. A computer monitor is also called:
 - (a) VDU
 - (b) VDT
 - (c) CRT
 - (d) VDO
- 38. Fastest memory is:
 - (a) RAM
 - (b) ROM
 - (c) Cache memory
 - (d) CPU
- 39. MICR stands for:
 - (a) Magnetic Ink Character Register
 - (b) Magnetic Ink Code Reader
 - (c) Magnetic Ink Character Recognition
 - (d) Magnetic Ink Code Register
- 40. allows you to connect and login to a remote computer.
 - (a) Telnet
 - (b) FTP
 - (c) HTTP
 - (d) SMTP
- 41. The process of locating and fixing an error in a computer program is known as:
 - (a) Compiling
 - (b) De-Bugging
 - (c) Bugging
 - (d) Assembling

- 42. Unsolicited Commercial E-Mail (UCE) is known as:
 - (a) Spam
 - (b) Malware
 - (c) Virus
 - (d) Spyware

Current Affairs

- Annual growth of industry sector at constant prices for 2021-22 (1st RE) was 10.3% for India. What was the rate of growth of industry sector for Odisha in same period?
 - (a) 9.1%
 - (b) 10.1%
 - (c) 11.1%
 - (d) 12.1%
- 44. Where will the next FIH Men's Hockey World Cup be held?
 - (a) Belgium and Netherlands
 - (b) Japan and South Korea
 - (c) South Africa
 - (d) Argentina
 - 5. Which of the following teams won highest number of medals in Khelo India Games, 2022 hosted by M.P. in Jan-Feb, 2023?
 - (a) Maharashtra
 - (b) Haryana
 - (c) M.P.
 - (d) Odisha
- 46. Madhusmita Jena successfully ran Manchester Marathon in April 2023. What clothing did she wear during her Marathon run?
 - (a) Track Suit
 - (b) Sambalpuri saree
 - (c) Bomkai saree
 - (d) Dongaria saree
- 47. Which among the following is not a "Biodiversity Heritage Site" of Odisha?
 - (a) Gandhmardan Hill
 - (b) Deomali Hill
 - (c) Mandasaru
 - (d) Mahendragiri Hill
- 48. Who won ICC's Women's T20 World Cup 2023 ?
 - (a) India
 - (b) Australia
 - (c) South Africa
 - (d) England





- 49. Which is the first Greenfield Airport of India?
 - (a) Shivamogga Airport
 - (b) Maharaja Agrasen Airport, Hisar
 - (c) Chatrapati Sambhajinagar Airport, Aurangabad
 - (d) Donyi Polo Airport, Itanagar
- 50. Which country won highest number of medals at 2022 Winter Olympics ?
 - (a) Germany
 - (b) Norway
 - (c) US
 - (d) China
- 51. Who was elected Speaker of US House of Representatives in January 2023, after record 15th attempt?
 - (a) Nancy Pelosi
 - (b) Kevin McCarthy
 - (c) Paul Ryan
 - (d) John Boehner
- 52. Which country was admitted to NATO on 4th April, 2023 ?
 - (a) Finland
 - (b) Sweden
 - (c) Norway
 - (d) Switzerland
- 53. Who was the top state of India in NFSA (National Food Security Act) Index 2022 (published by Ministry of Consumer Affairs, Food and Public Distribution, Government of India)?
 - (a) Odisha
 - (b) Uttar Pradesh
 - (c) Andhra Pradesh
 - (d) Gujarat
- 54. Indian Economy grew at rate of 8.7% in 2021-22. At what rate did Odisha Economy grow during this period?
 - (a) 8.5%
 - (b) 9.5%
 - (c) 10.5%
 - (d) 11.5%
- 55. 68th National Film Awards were presented on 30 September, 2022. Which film received Swarna Kamal for "Best Feature Film"?
 - (a) Soorarai Pottru
 - (b) Marakkar Pottru
 - (c) Hellaro
 - "(d) Kashmir Files

- 56. Who is the present Chairperson of Odisha Human Right's Commission?
 - (a) Justice Raghubir Das
 - (b) Justice Bimal Prasad Das
 - (c) Justice B.K Patel
 - (d) Justice Shatrughana Pujari
- 57. Recent (April 2023) armed clashes in Sudan were between which groups ?
 - (a) Sudanese Army and Para Military
 - (b) Sudanese Army and people demanding restoration of democracy
 - (c) Sudanese Army and Army of South Sudan
 - (d) None of these
- 58. 68th National Film Awards were presented on 30 September, 2022. Which film received Swarna Kamal for "Best Children's Film"?
 - (a) Sumi
 - (b) Kastoori
 - (c) Chillar Party
 - (d) I Am Kalam
- As per recent judgement of Supreme Court of India, (Anoop Barnwal vs Union India) till a Legislation by Parliament, appointment of EC / CEC will be done by President on advice of a Committee. Who among the following would not be a Member of the said Committee?
 - (a) Prime Minister
 - (b) Leader of opposition in Lok Sabha
 - (c) Leader of opposition in Rajya Sabha
 - (d) Chief Justice of India
- 60. Which of the following is not a recent Policy initiatives of Odisha Government in the crop sector?
 - (a) Odisha Mushroom Mission
 - (b) Odisha Spices Mission
 - (c) Odisha Jackfruit Mission
 - (d) Odisha Banana Mission

Data Interpretation

(Q. 61-62) Study the following table to answer the questions that follow:

Years / Countries	Production of cars (in thousands)	
	2013	2014
India	700	760 -
USA	900	940
China	1760	1860
Japan	1500	1580
Italy	1160	1218

1D/15

(6)

400 KIM

3 26 264 XIM

Contd.

10.5



- Find in which country, the production of cars has increased by less than 5% in 2014 over 2013 ?
 - USA (a)
 - China (b)
 - Japan (c)
 - (d) Italy
- What is the ratio between the production of cars by India in 2013 to the production of cars by Japan in 2014?
 - 35:77 (a)
 - 77:37 (b)

63.

- 35:79 (c)
- 79:80 (d) Find the average number of books sold every year during the period 2010-2013:

very year	during the period 2010-20
Years	Number of books
2010	1100
2011	1250
2012	1390
2013	1500

- 1210 (a)
- 1310 (b)
- 1410 (c)
- 1411 (d)

100

- Find the percentage increase in number 64. of books sold in 2013 compared to 2010:
 - 45.45% (a)
 - 32.32% (b)
 - 36.36% (c)
 - 44.44% (d)
- There are 55 students in a class and the following table shows the number of 65. students and their respective weights:

Weights (in kg)
62
63
67
70
80
75
95

63 67 30 80 3595 Find the average weight of all the 55 62 15 13 Dato students. No.

- 72.6 kg (a)
- 74.6 kg (b)
- 71.4 kg (c)
- 70.6 kg (d)

(7)

The following table shows the marks obtained by two students in different 66.

Subject	Student	Maximum Marks	Student B	Maximum Marks
English	60	100	30 70	150 100
psychology	70	100	60)	100
History Sanskrit	30	(6)	15	25 percentag

The difference in aggregate percentage marks of the two students is :

- 2.5% (a)
- 13.75% (b)
- 1,25% (c)
- 0% (d)
- Consider the following information regarding the performance of a class of 67. thousand students in four different texts:

Marks / Texts	Average Marks	Range of Marks
TEXES	60	30 - 90
1	60	45 – 75
111	70	20 – 100
111	80 -	0 – 100
10		1 - 1 0201

If a student score 74 marks in each of the four texts, then in which one of the following text his performance is comparatively better ?

- Text I (a)
- Text II (b)
- Text III (c)
- Text IV (d)
- (Q. 68-70) In the following table, production of rice of the different states UP, AP and Punjab over the years 2006 -2009 is shown. Study the table carefully and answer the questions given below:

Pro	duction	of rice	(in tons	
State / Years	2006	2007	2008	2009
UP	5.6	3.7	4.6	7.3
AP	4.7	(5.2)	8.0	6.5
Punjab	3.8	7.4	5.9	3.1

What is the difference between the total 68. production of rice (in tons) in all the three states (UP, AP and Punjab) together in 2006 and 2008 respectively?

- 5.4 (a)
- (b) 4.8
- (c) 5.1
- (d)

(Turn over)

20.2

MV - 1D/15





- What is the average production of rice (in tons) of Punjab state for all the years together?
 - 4.95 tons (a)
 - (b) 5.05 tons
 - 5 tons (c)
 - 4.6 tons (d)
- What is the percentage increase in the production of rice in the state AP in the year 2009 in comparison with year 2007?
 - 70% (a)
 - 40% (b)
 - 55%
 - (c)
 - 25% (d)
- (Q. 71-75) Refer to the following tables and answer the questions given below:

A TO WAR OF THE STATE OF	P
Godowns	Quantity available
1	150
2	220
3	190

Q		
Outlets	Capacity as well as Quantity required	
Α	220	
В	140	
С	180	

Transportation cost per unit (in Rs.) (proportional to dista

Godowns	Outlets		
But the public	Α	В	С
	8	6 -	. 10
2	5	(3)	7
3	4	9	12

If transport at only Godown-2 was available, then at what minimum cost can Godown-2,send all quantity available?

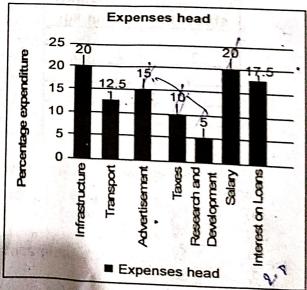
- (a) Rs. 1,120
- (b) Rs. 820
- (c) Rs. 370
- (d) Rs. 560
- If only Outlet 'A' is present, then what will be the minimum cost of supply of all quantities from the nearest Godown?
 - (a) Rs. 910
 - (b) Rs. 760
 - (c) Rs. 640
 - (d) Rs. 1,010
- MV 1D/15

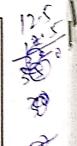
- If only Godown-3 was available, then at what minimum cost can it supply up to the full capacity of its farthest Outlet?
 - (a) Rs. 910
 - (b) Rs. 820
 - (c) Rs. 2,160
 - (d) Rs. 1,120
- If Godown 2 is shut down and its 74: availability is divided equally between the Godowns 1 and 3, then which of the two Godowns can exhaust its availability more economically and at what cost?
 - (a) 1, Rs. 1,600
 - (b) 1, Rs. 1,800
 - (c) 3, Rs. 1,600
 - (d) 3, Rs. 1.800
- 75. Assuming that, the goods shipped is as shown below:

	(Units Shipped)		
Godowns	Α	В	С
1	30	40	_
2	25	C. Carlotte	70
3	60		30

What will be the total cost incurred?

- (a)Rs. 1,210
- (b) Rs. 1,695
- (c) Rs. 1,815
- (d) Rs. 965
- (Q. 76-80) The bar graph given below shows the percentage distribution of total expenditure of a company under various expense heads during 2013. Study the graph and answer the given questions below:

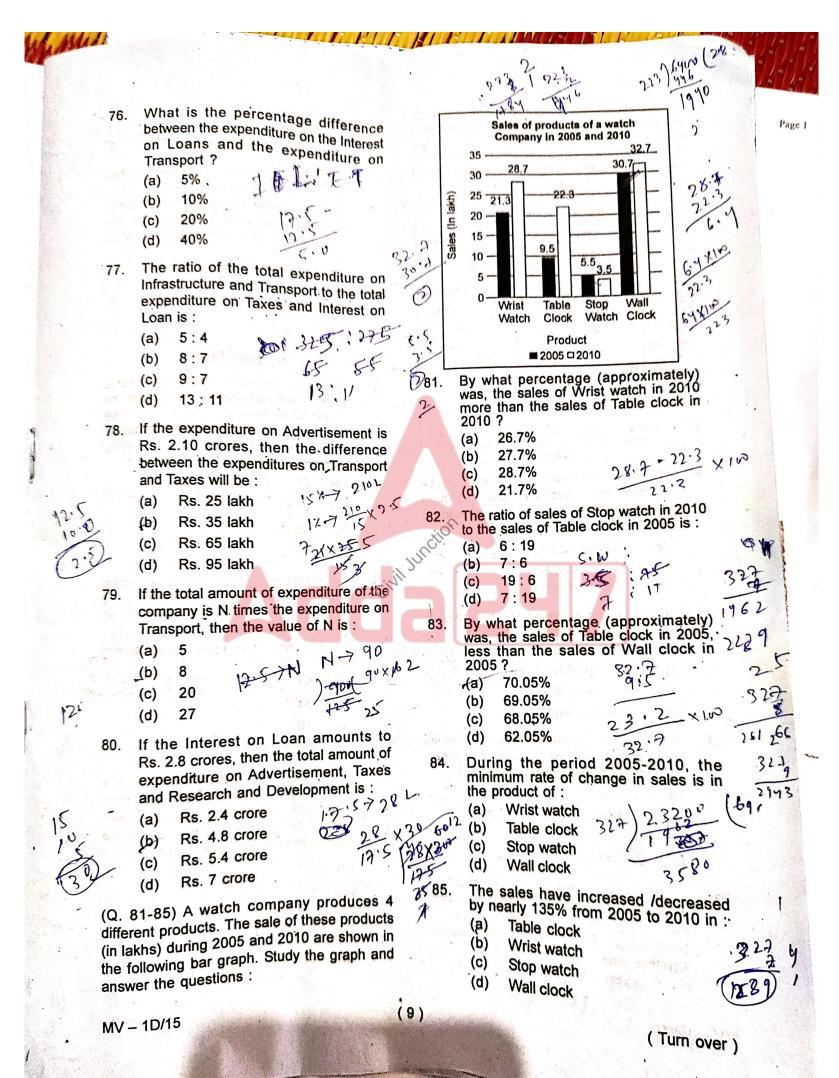






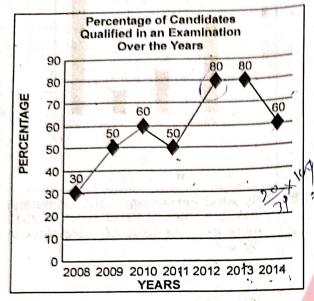








(Q. 86-90) The following line graph gives the percentage of the number of candidates who qualified in examination out of the total number of candidates who appeared for the examination over a period of seven years from 2008-2014:

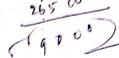


- The difference between the percentage 86. of candidates qualified, was maximum in which of the following pair of years?
 - 2008 and 2013 (5%) (a)
 - 2011 and 2012 was 6%. (b)
 - 2012 and 2013 %. (c)
 - 2013 and 2014 (d)
- In which pair of years was the number of candidates qualified the same?
 - 2009 and 2011 (a)
 - 2009 and 2014 (b)
 - 2012 and 2013 (c)
 - (d) Data inadequate
- 88. If the number of candidates qualified in 2012 was 21200, what was the number of candidates appeared in 2012?
 - 32000 (a)
 - 28500 (b)
 - 26500 (c)
 - 25000 (d)
- 89. If the total number of candidates appeared in 2010 and 2011 together was 47400, then the total number of candidates qualified in these two years together was:
 - 34700

- (b) 32100
- (c) 31500

90.

- (d) Data inadequate
- The total number of candidates qualified In 2013 and 2014 together was 33500 and the number of candidates appeared in 2013 was 26500. What was the number of candidates appeared in 2014?
- (a)24500
- (b) 22000
- 20500 (c)
- 19000 (d)



Arithmetic

Sunil covered a certain distance at some speed. Had he moved 3 kmph faster, he would have taken 20 minutes less. If he had moved 2 kmph slower, he would have taken 20 minutes more. The distance (in km) is:

- 20 (a)
- (b) 26 র
- 15능 (c)
- (d) 30

1692.

93.

A student gets 4 marks for a correct answer and 1 mark is deducted for a wrong answer. If she has attempted 80 guestions and she has got 240 marks, the number of questions she did wrong

were:

(a)

24 (b)

21

- 16 (e)
- (d) None of these

A Milkman's vessel is filled with liquid, 4 parts of which are water and 5 parts milk. How much of the mixture must be drawn off and replaced with water so that the mixture may be half water and half milk?

- (a)
- (b)
- (c)
- (d)

M

MV - 1D/15



-	11×0.16 (xx 336 2)1296	9/49
	1 1 0	
	94. $(1296)^{0.16} \times (1296)^{0.09^{14}}$ 26 100. At what time between 5 : 30 and 6 will the hands of a clock be at right angles?	
	0.15 (b) 316 y y 2.05 (a) $43\frac{7}{11}$ minutes past 5	
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	95. The value of $\frac{978.1375 \times 0.0497 \times 1.956}{0.0866 \times 0.0497 \times 1.956}$ (c) 40 minutes past 5 (d) 41 minutes past 5	ıber
	is closest to: 101. On what dates of April, 2001 did	0092
	(a) 0.117 (b) 1.17 (c) 1.17 (a) 1st, 8th, 15th, 22nd, 29th	
	(c) 3rd, 10th, 17th, 24th (d) 4th, 11th, 18th, 25th	
	96. A number when divided by 12 leaves remainder 4. When the square of the number is divided by 16, the remainder business in the ratio 5:7:8. They had business in the ratio 5:7:8. They had	
	partnered for 14 months, 8 months and partnered for 14 months, 8 months and 7 months respectively. What was the	á
	(b) 13 24 ratio of their investments? (c) 11 (a) 5:7:8	
	(d) 4 (b) 20:49:64 (c) 38:28:21 P 5	
	97. A boat having a length 2.5 m and breadth 2 m is floating on a pond. The boat sinks by 2 cm when Siddharth gets boat sinks by 2 cm when Siddharth gets	- 10
10	breadth 2 m is floating on a pond. The boat sinks by 2 cm when Siddharth gets on it. Assuming density of water being 1g/cm³-the mass of Siddharth is: 103. A shopkeeper bought candies at 5 for a rupee. How many for a rupee must he sell to gain 25%?	
!	(a) 80 kg (b) 85 kg (b) 85 kg	
	(c) 100 kg (d) 93 kg (d) 6 \times 125 \times 126 \times	
	www.compound	
	4 cats would kill 4 like a state of the rate of interest per days?	
	(a) 1 days (w) 100 mg annum?	
	(c) 100 days (b) 10	
	The captain of a cricket team of 11 (d) Cannot be determined	Χ.
•	captain is 2 years pipes A, B and C. The pipe C is thrice	
	of the remaining age of the whole how much time will pipe B alone take to	
2	team. What team? (1) \(\frac{1}{2} \) (a) 20 hours (1) \(\frac{1}{2} \) \(\frac{1}{2} \)	3 = (10.
	(a) 23 years (b) 22 years (c) 27 hours	
m	(c) 24 years (d) Cannot be determined	
5	$\frac{1}{10000} = \frac{10}{15} = \frac{121}{10000} = \frac{10000}{1000} = \frac{10000}{1000$	
1	12/28	





	245 X3	- 100 - 3 \ TIND TO
106	. Total number of factors of 540 are: (a) 24 (b) 27	(b) Index finger (c) Middle finger (d) Ring finger (e) Ring finger
107	(d) None of these Two numbers A and B are such that the	Alok and Bipul take part in 200 m race. Alok runs at 8 kmph. Alok gives Bipul a start of 8 m and still beats him by 18 seconds. The speed of Bipul is: (a) 8.15 kmph (b) 5.14 kmph
	of the sum of 6% of A and 8% of B. Find the ratio A: B. (a) 2:3 (b) 1:1 (c) 3:4 (d) 4:3 The salaries of Ritu. Nitu and Situ are in	(c) 4.25 kmph (d) 6.4 kmph
	(d) 4:3	A boat takes 90 minutes less to travel 36 miles downstream than to travel the
108.	the ratio 2:3:5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what	of the boat in still water is 10 mph, the speed of the stream is:
	will be new ratio of their salaries?	(a) 2 mph 200 300 500 (c) 3 mph
~~~	(b) 10:11:20 (c) 23:33:60 (d) Cannot be determined 114.	(d) 4 mph  Two trains of equal lengths take 10 (73.4)
109.	Samrat is as much younger than Ritesh as he is older than Tamanna. If the sum	seconds and 15 seconds respectively to cross a telegraph post. If the length of each train be 150 metres, in what time
# 16 * 15	of the ages of Ritesh and Tamanna is 50 years, what is definitely the difference between Ritesh and Samrat's age?	(a) 10 (a) 10 (b) (in seconds) will they cross each other travelling in opposite direction?
	(a) 1 year (b) 2 years (c) 25 years	(b) 12 (c) 15 (d) 20
	(d) Data inadequate \$\bigce\$115.	4 men and 6 women can complete a
110.	2:3:7 and their L.C.M. is 8400. Their	can complete it in 10 days. In how many days will 10 women complete it?
	H. C. F. is:  (a) $40$ (b) $80$ (c) $120$ (d) $200$ HX8400 = HX42 $284100$ $284100$	(a) 35 (b) 40 (c) 45 (d) 50
111.		
- <del>1</del> 46 (11	She started by calling the thumb 1, the index finger 2, middle finger 3, ring	There are three numbers A, B and C. The Highest Common Factor of A and B, B and C, C and A are 3, 15 and 3 respectively. If Least Common Multiple
	reversed direction calling the ring finger 6, middle finger 7, index finger 8, thumb finger 9. Then again reversed direction	of the Abree numbers is 300 and men
	counted up to 1994. She ended counting on which finger?	product is 13500, then find the greatest possible number, which can divide them.  (a) 25 (b) 3 (c) 12 (d) None of these
	(a) Thumb	(d) None of these
MV –	1D/15 (12)	Contd.



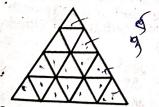
	2.5					
117	What is the least possible number, which when divided by 18, 35 or 42 it which					
117.	when divided by 18, 35 or 42, it leaves  2, 19, and 26 as the remainder.	ć. 1	maintain	the expenditure	on petrol same	1.
	2, 19, and 26 as the 42, it leaves	6	as previo			们
	lespectively i citalifidets		(a) 20	%		14
	(a) 1244		(b) 25	%		41
	(b) 614 16 16 16 16 16 16 16 16 16 16 16 16 16		(c) 33	.33%		
	(c) 1874			0%		
			•	-1-1	plac is same as	
		123.	If the co	st price of 15 ap	apples, what is	
118.	The number of zeros at the end of the		the gain	or loss percent		
	expression expression			5% gain	C(X)0	
	10 × 100 × 1000 × 10000×		, ,	5% loss	C6×12= 26×30	
	10000000000 is :	(	(-/		267	
	(a) 10			3.33% gain	2 Cl = -x	
	(b) 100		<b>\</b>	3.33% loss	2 CD = 753	
		124.	Jadeia	purchased a ca	r 3 years ago for	
	(d) 55	12-7.		whe lie Valle	len eciated sasii	
	(u) 33		year h	, 25% per anni	um. What is the	(
119.	Find the 11th term from the last term		present	value of the ca	I KIP	
146.	(towards the first term) of the AP:			35260	um. What is the ar?	
	10, 7, 4,, – 62.		(b) 8	34050		
	(a) $-32$ $3\times 3$	4	(c) · 8	34375		
	(b) -35		(d) §	32540		
					hours a day can	
		125.		all of Lannii	hours a day, can 1 150 m, breadth	
	(d) 32 = (3125)		00	ad boight 1 / III	III /:) (lavs. III liov	
120	10 years ago, the average age of all the	177	many	days 12 workers	s, working 8 hours	
120.	25 teachers of a school was 45 years. 4	on	a day.	can build a wa	I of letigut occ,	,
	years ago, the Principal has retired from	70	bread	h 15 m, height	6 m? 2	= =
	ner host at the age of ou years. Ou arrow	١.	(a)	60	PKX6X ST	X6
	one year a new Principal, whose ages		(b)	50	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	1-
	was 54 years, recruited from outside. If	110	(c)	40	XX 8 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Principal is also counted as a teacher,		(d)	None of these	X M	
	then the present average age of all the		(u)	HOLLE OF THESE		
	teachers is	126	S. A and	B started simu	ultaneously towards	
	(a) 54 18/25 years (a) (b)		anch	other from P	and diespectively.	
	(a) 54 ½ years		The	distance betw	ween P and Q is of speeds of A and	
	(b) $55\frac{19}{25}$ years		Dic F		et at a point M, then	70
	(B) 25 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		the d	istance PM is:		<b>(1)</b>
	(c) $53\frac{8}{25}$ years			350 km	20 x 15 x	
	-f those		(a)		K F	
	(d) None of triese		(b)	150 km	S P	
121.	The 30 members of a club decided to		(c)	250 km	<b>y</b>	
121.	play a badmillion, the locas a name, he		(d)	None of thes	e /	
	Every time a lifetime and There are no	40	7 Covi	to and Hamida	are friends. What is	
	is out of the tours in mumber of	12	the	nrohability th	nat both will have	
	ties. What is the must be played to		diffe	rent birthdays	? (Ignoring a leap	
	ties. What is the minimum hamber to matches that must be played to matches the winner?		yea		(19.1411119 at 19.14	
3.0	matches that matches determine the winner?		, ,,,,,,			
	가는 그는 그는 자기를 가지면서 보고 있는 것이 하면 보고 있다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은		(a)	365 366		•
	(4)					
	(b) 29		(b)	364 365	a colonia	1
	(c) 61					
	(d) None of those by 20%	•	(c)	<u>363</u>	1	
	price of petrol falls down by 20%,			365		
122	(d) None of the construction (d) None of the		(d)	<u>363</u>		
	by how much percent, must a person by how much percent			366		
	increaso	9				
		3)	V. Zava		(Turn over)	
		25 4 6 7 1			I TUITI (IVAL)	





- 128. What is the product of all the numbers in the dial of a telephone?
  - 1,58,480 (a)
  - 1,59,450 (b)
  - (c)
  - (d) None of these

- 129. What is the unit digit in  $(6374)^{1793} \times (625)^{317} \times (341)^{491}$ ?
  - (a) 0
  - 2 (b)
  - IXI 3 (c)
  - (d)
- 130. On dividing 2272 as well as 875 by 3digit number N, we get the same remainder. The sum of the digits of N is:
  - (a) 10
  - (b) 11
  - (c) 12
  - 13 (d)
- 131. A boy multiplied 987 by a certain number and obtained 559981 as his answer. If in the answer both 9 are wrong and the other digits are correct, then the correct answer would be:
  - (a) 553681
  - (b) 555181
  - (c) 555681
  - (d) 556581
- 132. A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:
  - (a) 145
  - (b) 253.
  - (c) 370
  - (d) 352
- 133. Count the number of triangles in given figure:



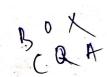
- (a) 24
- (b) 26
- (CY 27
- 28
- MV 1D/15

- A man wears socks of two colours black and brown. He has altogether 20 black Supposing he has to take out the socks in a drawer.

  In the dark, how many least number of he has matching pair?

  (a) 3

  - 20
  - (c) 39
  - (d) None of these
  - 135. Which of the following statements are
    - Every whole number is a natural number.
    - Every integer is a rational number.
    - Every rational number is an integer.
    - (a) (ii) only
    - (b) (i) and (ii) only
    - (c) (iii) only
    - All are true statements (d)



## Logical Reasoning

- 136. If in a code language 'MATCH' is written as 'NCWGM' and 'BOX' as 'CQA', then how will 'NOTEBOOK' be written in the same language?
  - (a) **OQWGIUVS**
  - (b) **OQWIGVUS**
  - (c) **OQWIGUVS**
  - (d)OQWIGUSV
- 137. If in a code language, "LUXOR" is written as 30, then in the same language, "GUILDS" will be written as:
  - 36
  - (b) 38
  - 24 (c)
  - (d) 40
- 138. In the given set, a rule is followed, find the set based on the same rule from the given options:

Given set - (15, 30, 90)

- (a) (6,18,54)
- (12, 24, 36)
- (12,24,72)
- (d) (12, 26, 70)





age 1

- 139. 'Writing' is related to 'Pen' as:
  - 'Singing' is related to 'Music' (a)
  - 'Stitching' is related to 'Needle' (b)
  - 'Dance' is related to 'Exercise' (c)
  - 'Carpenter' is related to 'Tools' (d)
- 140. Find the pair which is different from the other three pairs.
  - **BFE** (a)
  - (b) HLK
  - DHG (c)
  - (<del>b</del>) **JNR**
- 141. A monkey jumps up 30 feet at the beginning of each hour and rests for an hour, when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8:00 am, at what time will he first touch a flag at 120 feet from the ground?
  - 4 p.m. (a)
  - 5 p.m. (b)
  - (c) 6 p.m.
  - (d) None of these
- 142. If a clock rings once at 1 O'clock, twice at 2 O'clock, thrice at 3 O'clock and so on, then how many times the clock will ring in one day?
  - (a) 144 times
  - 136 times (b)
  - 156 times (c)
  - 147 times (d)
- 143. If the water reflection of a Clock above, shows time as 6 hours 10 minutes, then the actual time will be
  - (a) 6:50
  - 12:40 (b)
  - 12:20 (c)
  - 6:10 (d)
- 144. Four bags T, S, V and W are so, that they all are of different weights .Bag T is only lighter than S. V is lighter than W and W is lighter than T. Which is the lightest bag?
  - S
  - W (b)
  - Τ (c)
  - ٧. (d)

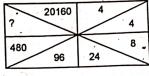
 $MV \rightarrow 1D/15$ 

145. It being given that : > denotes +, < denotes -, + denotes ÷, - denotes =, =

- denotes < and x denotes > : find which of the following Is a correct statement?
- 3 + 2 > 4 = 9 + 3 < 2
- 3 > 2 > 4 = 18 + 3 < 1 (b)
- $3 > 2 < 4 \times 8 + 4 < 2$ (c)
- $3 + 2 < 4 \times 9 + 3 < 3$ (d)
- In the following number series, only one 146. term is different. Find the different term :
  - 8, 27, 64, (100) 125, 216, 343
  - 27 (ạ)
  - 100 (b)
  - 125 (c)
  - 343 (d)
- 147. In 318, 368, 345, 395, 372, 422, ?, 449, what will come in place of question mark
  - (5)
  - 398 (a)
  - 395 (b)
  - 438 (c)
  - 399 (d)
- 148. In the following series of Letters, which of the following options will come in place of question mark (?)
  - FTL HRO DVI BXF
  - JOL (a)
  - **KPM** (b)
  - **KPL** (c) JPR

(d)

- Find the missing character from among the given alternatives:



- 860 (a)
- 1140 (b)
- 2880 (c)
- 3240 , (d)
- 150. Assuming in the year 1950, Republic Day was celebrated on Wednesday. In the year 1951, this day would be celebrated on:
  - (a) Monday
  - (b) Tuesday
  - Friday (c)
  - (d) Thursday





Provisional Answer-key for CTSRE Preliminary Examination-2022 held on 04-06-2023																
Α	В	С	D	Correct Alternative		А	В	С	D	Correct Alternative		Α	В	С	D	Correct Alternative
1	121	91	61	а		51	21	141	111	b	ľ	101	71	41	11	С
2	122	92	62	С		52	22	142	112	d	Ī	102	72	42	12	d
3	123	93	63	b		53	23	143	113	а	F	103	73	43	13	а
4	124	94	64	С		54	24	144	114	b		104	74	44	14	b
5	125	95	65	d		55	25	145	115	b	Ī	105	75	45	15	а
6	126	96	66	d		56	26	146	116	b		106	76	46	16	d
7	127	97	67	b		57	27	147	117	b	Ī	107	77	47	17	d
8	128	98	68	d		58	28	148	118	d		108	78	48	18	С
9	129	99	69	b		59	29	149	119	а		109	79	49	19	а
10	130	100	70	d		60	30	150	120	а	ľ	110	80	50	20	d
11	131	101	71	b		61	31	1	121	b	ľ	111	81	51	21	С
12	132	102	72	b		62	32	2	122	b	ŀ	112	82	52	22	а
13	133	103	73	С		63	33	3	123	b	ŀ	113	83	53	23	а
14	134	104	74	С		64	34	4	124	С	ŀ	114	84	54	24	С
15	135	105	75	b		65	35	5	125	b	ŀ	115	85	55	25	а
16	136	106	76	d		66	36	6	126	С	-	116	86	56	26	d
17	137	107	77	d		67	37	7	127	b	-	117	87	57	27	С
18	138	108	78	b		68	38	8	128	С	ŀ	118	88	58	28	С
19	139	109	79	b		69	39	9	129	a	ŀ	119	89	59	29	b
20	140	110	80	b		70	40	10	130	a	ŀ	120	90	60	30	а
21	141	111	81	С		71	41	11	131	С	-	121	91	61	31	а
22	142	112	82	d		72	42	12	132	b	-	122	92	62	32	a
23	143	113	83	b		73	43	13	133	c	-	123	93	63	33	a
24	144	114	84	d		74	44	14	134	a	-	124	94	64	34	b
25	145	115	85	a		75	45	15	135	a		125	95	65	35	b
26	146	116	86	a	9	76	46	16	136	C	L	126	96	66	36	b
27	147	117	87	d		77	47	17	137	С		127	97	67	37	a
28	148	118	88	C		78	48	18	138	С	-	128	98	68	38	С
29	149	119	89	d		79	49	19	139	b	-	129	99	69	39	С
30	150	120	90	С		80	50	20	140	d	ŀ	130	100	70	40	a
31	1	121	91	a		81	51	21	141	b	-	131	101	71	41	b
32	2	122	92	c		82	52	22	142	c	-	132	102	72	42	a
33	3	123	93	d		83	53	23	143	c	-	133	103	73	43	d
34	4	124	94	С		84	54	24	144	d	-	134	104	74	44	a
35	5	125	95	a		85	55	25	145	c	-	135	105	75	45	a
36	6	126	96	a		86	56	26	146	b	-	136	106	76	46	b
37	7	127	97	С		87	57	27	147	d	-	137	107	77	47	b
38	8	128	98	d		88	58	28	148	d	-	138	107	78	48	b
39	9	129	99	d		89	59	29	149	c	-	139	109	79	49	d
40	10	130	100	a		90	60	30	150	d	-	140	110	80	50	b
41	11	131	101	d		91	61	31	1	a		141	111	81	51	b
42	12	132	101	b		92	62	32	2	a		142	112	82	52	a
43	13	133	102	b		93	63	33	3	d	-	143	113	83	53	a
44	14	134	103	С		94	64	34	4	d	-	144	114	84	54	d
45	15	135	105	С		95	65	35	5	a	-	145	115	85	55	a
46	16	136	103	a		96	66	36	6	b	-	146	116	86	56	d
47	17	137	107	d d		97	67	37	7	d	-	147	117	87	57	a
48	18	138	107	c		98	68	38	8	b	-	147	117	88	58	a
48	19	139	108	d		99	69	39	9	d	-	148	118	89	59	
-				d					<b>-</b>	d	-			<b>-</b>		c d
50	20	140	110	u		100	70	40	10	u		150	120	90	60	u