#  STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING (S.C.E.R.T.) PUNJAB, MOHALI <br> कंभी जैवाउए घैन्त यीषिभा 2017 <br> National Talent Search Examination 2017 

## State Level Test-2017 <br> वन्त पॅपर्गी यूपिभा - 2017 सभा्ड हमदीं (Class X)

## MENTAL ABILITY AND SCHOLASTIC APTITUDE TEST भा्ठमिव जनठाडा भडे दिसिभों टी जैगाउा टी यूसिभा

Time : 3 hours

## Instructions for candidates:-

1. This exam is in two parts.
2. Part-I is related to Mental Ability Test.
3. Part-II relates to Scholastic Aptitude Test. It consists of nine subjects, details of which are given below:-
i) Physics
ii) Chemistry
iii) Biology
iv) Mathematics
v) History
vi) Geography
vii) Civics
viii) Economics
ix) English
4. Each question carries one mark. All questions are compulsory.
5. You have been provided with a answer sheet (OMR) for this question paper. Darken the correct option of each question in the answer sheet (OMR) with black/blue ink.
6. Rough work may be done on the blank space provided.
7. There is no negative marking in this question paper.
8. Do not use white fluid on OMR Answer Sheet.

बिभीटद्यन्म उप्टी गटर्गिता :

1. हिचपीकिश सै बत्वाम बिँडगे।
2. पचिष्डा व्वगा भग्तमिव जेताउए कम्ड मैखंपड गे।
 है दिसे गत, नितुर्टा देगदा गेठ टिंगणने-
i) बौंडव दितिाभाण
ii) उमर्गहिट दिविाभान
iii) सौद fिविभाण्万
iv) वाटिड
v) fिडिग्म
vi) तृठॉल

ix) भंवृल्सी





 जै।
 ता बीडी नादे।

## National Talent Search Examination- 2017, Class-X ঝँभी जैठाउए षैत्त प्रीषिभा-2017, सभाउ टॅमदीं

## Mental Ability

Direction Question (1-4) there is a number series following a pattern one place is left blank. Find the answer among the options.

1. $87,56,30$,
2. 26
3. 20
4. 12
5. 0
6. $4,5,12,39,160$,
7. 805
8. 790
9. 695
10. 225
11. $2,12,36,80,150$, $\qquad$
12. 210
13. 258
14. 252
15. 194
16. $124,139,127,142,130,145$ $\qquad$
$\qquad$
17. 127
18. 132
19. 133
20. 149

Direction Questions (5-6) Find the missing term in place of question mark.
5.

| 38 | 22 | 69 |
| :---: | :---: | :---: |
| 34 | 23 | 27 |
| 28 | 14 | $?$ |

1. 46
2. 29
3. 23
4. 99
5. 



1. 121
2. 64
3. 3
4. 1
5. In a certain code language 'NAME' is written as 'OYPA' then how will 'TEAM' be coded in that language?
6. UCDF
7. UCDH
8. UCDN
9. UCDI
10. If MTNERAL is written as QRSTUVW and SOUND is written as ABCSD, the how will READER be written in same code?

## भर्ठामिब जैठाडा


 दिवउप ही बैट वंँ।

1. $87,56,30$, $\qquad$
2. 26
3. 20
4. 12
5. 0
6. $4,5,12,39,160$, $\qquad$
7. 805
8. 790
9. 695
10. 225
11. $2,12,36,80,150$, $\qquad$
12. 210
13. 258
14. 252
15. 194
16. $124,139,127,142,130,145$, $\qquad$
17. 127
18. 132
19. 133
20. 149

हिबचेप्र प्मर (5-6) '?' fिंत ही सं' डे मरी बूंउठ fएँ डे गाटे द्वरणपरं चै चुटे।
5.

| 38 | 22 | 69 |
| :---: | :---: | :---: |
| 34 | 23 | 27 |
| 28 | 14 | $?$ |

1. 46
2. 29
3. 23
4. 99
5. 



1. 121
2. 64
3. 3
4. 1
 त्रिभे उपार दिॅष TEAM टा वैइ वी गेदेगा?
5. UCDF
6. UCDH
7. UCDN
8. UCDI
9. सेबत MINERAL के QRSTUVW Hडे SOUND \% $A B C S D$ fिधिभि नाद्ये उा READER के बिमे वैड बिँष विनें हिधिया जल्तेगा?
1．QDZCDQ
2．SBFEFS
3．UTVDTU
4．TUDVUT

9．On 26 January， 1947 is SUNDAY，then which day on 2 September，1947？
1．MONDAY
2．TUESDAY
3．WEDNESDAY
4．SUNDAY

10．What will be the angle between the minute hand and hour hand of a clock at 7：35？

3． $1212^{\circ}$
2． $171 / 2^{\circ}$
4． $0^{\circ}$


A is son of C，C and B are sisters，D is the mother of B，E is the son of．D，which one of the following is correct？
1．Eis the maternal uncle of $A$
2．B is the grandfather of $A$
3．C and E are sisters
4．Eand Aare brothers


In a row of children Teena is 5 th from the left \＆ Meena is 6 th from the right．If they interchange their places then Teena becomes 13th from the left．Now． what place will be occupied by Meena from the right．
1． 4
2． 14
3． 15
4． 18

Direction（13－14）Study the letter series and answer the following questions．
13．I b，bca．．．．．．．cca．A．．．．．ca $\qquad$ b．．．．．．．．e
l．aaaaa
2．aabaa
3．bbabb
4．bbbab
14.
1．bddddb ca． a．．．．．．．bacb． ．．．．．．．ca
2．addddb
3．bbbddd
4．addbbb a．．．．．．．bac c．．．．．．．．d

15．If a man facing east rotates in clockwise direction $45^{\circ}$ \＆then，anticlockwise $270^{\circ}$ then clockwise $180^{\circ}$ which direction is he facing now．
1．South－East
2．West
3．North－East
4．South


Direction（16－17）Question six faces of a cube are painted in such a way that no two adjacent faces are of same colour．The three colours used are Red，Blue \＆ Green．The cube is then cut into 32 smaller and 4 big cubes in such a way that big enbe has no red face． Answer the following Questions．
16．How many cubes are coloured on three faces？
1．QDZCDQ
2．SBFEFS
3．UTVDTU
4．TUDVUT

9．नेवब 26 सरदठी 1947 त्रं मेंडद्व गैदे उं 2 मउँघठ 1947末ें वी टित वैदेवा？
1．MONDAY
2．TUESDAY
3．WEDNESDAY
4．SUNDAY

10．मँउ दत के पैंडी मिट डे uनी ही fिंटा दाही मुरी के

1． $221 / 2^{\circ}$
2． $1712^{\circ}$
3． $12 \frac{1}{2}{ }^{\circ}$
4． $0^{\circ}$


1．E，A साभग्भ वे।
2． $\mathrm{B}, \mathrm{A}$ हा हात्गे।
3． C डे E बैटां गठ।
4．E भडे A उवग गर।

 सना मृँव स्रिते हग्ल घरल हैट उा टीता कण्हीत से पँघे
 टे मॅने पर्मिध विंतदें मदएठ डे गैदेती？
1． 4
2． 14
3． 15
4． 18
 बिबहपचुटे।
13.

| 1．aaaaa | 2．aabaa |
| :---: | :---: |
| 3．bbabb | 4．bbbab |

14. 

| 1．bddddb | 2．addddb |
| :---: | :---: |
| 3．bbbddd | 4．addbbb |

15．सेबठ पूवष चंड हेष विच निभवडी यडी टी मृटी सी निषा


 प्रेम हा चिचठ विजनी टिम्य दूल जै ？
1．टँघट－पुवघ
2．पँद्र
3．氏ैंडण－पूठ्य
4．संध्ट

 दिॅदे निग्र वैंा हती डे ।


 fिछ।
16．विले फल की कित परमिभो चै वेविभा विभाने？

1. 0
2. 8
3. 16
4. 32
5. Zivw many cubes have exactly two faces painted?
6. 16
7. 20
8. 32
9. 36

Direction (18-19) Questions match the numbers in Column I with the Rules in Column II.

| Column I | Column II |  |
| :--- | :--- | :--- |
| 17 | $2 x^{3}+3$ | $2 x^{2}-1$ |
| 18 | $x^{2}+2 x$ |  |
| 57 | $x^{3}-3 x$ |  |
| 28 | $3 x^{2}+1$ |  |

18. Which rule the number 28 follows?
19. $2 x^{2}-1$
20. $3 x^{2}+1$
21. $x^{3}-3 x$
22. $x^{2}+2 x$
23. Which number follows the rule $2 x^{3}+3$ ?
24. 15
25. 17
26. 18
27. 57
28. Which of the following words cannot be made from the word "COMMUNICATION".
29. UNION
30. ACTION
31. MUSIC
32. CAUTION
33. Arrange the following words according to dictionary arrangement.
a) WOUND
b) WRITER
c) WHITER
e) WORST
f) WORKED
34. caebd
35. adeeb
36. dcbae
37. cedab
38. Select the combination of numbers 50 that the letters arranged accordingly will form a meaningful word.

| J | C | O | P | T | E | R |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | 2 | 3 | 4 | 5 | 6 | 7 |

1. 2645137
2. 1345672
3. 7645132
4. 4731625 e- $\mathrm{CPC}^{\prime}$
Six friends A, B, C, D, E, F are sitting in a closed circle facing the centre. Direction (23-24) Questions.
[^0]1. 0
2. 8
3. 16
4. 32

5. 16
6. 20
7. 32
8. 36

 ठालवते।

| वम्ठH-I | $\frac{\text { वग्8H-II }}{2 x^{3}+3}$ |
| :--- | :--- |
| 17 | $2 x^{2}-1$ |
| 18 | $x^{3}+2 x$ |
| 57 | $x^{2}-3 x$ |
| 28 | $3 x^{2}+1$ |

18. मिधिभा 28 विग््े किजम भपीठ भाजिंटी जे?
19. $2 x^{2}-1$
20. $3 x^{2}+1$
21. $x^{3}-3 x$
22. $x^{2}+2 x$
23. विचज्ञी मिषिभ हिजा $2 x^{2}+3$ भपीठ माष्टिंी चै?
I. 15
24. 17
25. 18
26. 57
27. चिंडे गाटे मघस से भॉजता नें चेठ किसे लिँचे विगहा मघट "COMMUNICATION" 3 हु ठगी घटाप्टभा ना मवस?
28. UNION
29. ACTION
30. MUSIC
31. CAUTION
32. सिंडे ठापे घघटां ठैभंगतेती प्रघट वँप्त से वभभर्णमग्त बठे।
a) WOUND
b) WRITER
c) WHITER
c) WORST
f) WORKED
1, caebd
33. adoeb
34. dcbae
35. cedab



| J | C | O | P | T | E | R |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |

1. 2645137
2. 1345672
3. 7645132
4. 4731625

हितयेम पूकत (23-24) हे संमन $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$ हे F सँवत

$\mathrm{E}, \mathrm{D}$ से संखे पगे चै।
$C, A$ के $B$ से विस्व््व वै।
$\mathrm{F}, \mathrm{A}$ वे E eे टिस्षर्न वै।
23. Who is to the Left of B ?

1. A
2. C
3. D
4. E
5. Who is the Right of C ?
6. A
7. $B$
8. E
9. F
10. A man is performing yoga with his head down and legs up. His face is towards the west. In which direction will his left hand be?
11. North
12. South
13. East
14. West

Direction (26-27) are based upon the sum of addition, Each letter has unique value and for unique value there is unique letter.
Given E = 4
26. Find the value of O ?

1. 3
2. 1
3. 0
4. $2^{\prime}$
5. Find the value of $S$ ?
6. 8
7. 6
8. 4
9. 2
10. A printer numbers the pages of a book starting with 1 and uses 3193 digits in all. How many pages does the book have?
11. 1074
12. 1075
13. 1076
14. 1077

Direction (29-30) Questions. A carpenter has the five wooden artieles A, B, C, D, E having different weight.

1. Aweightstwice as $B$
2. B weights four \& half time as much as $C$
3. Cweights halfas much as $D$
4. Dweights halfas much as $E$
5. Eweights less than $A$ but more than $C$
6. Which of the followingis lightest in weighr?
7. D
8. C
9. $B$
10. A
11. Which of the following article is heaviest in weight?
12. E
13. D
14. A
15. C
16. Findoddeneout
17. SEPTEMBER
18. JULY
19. MAY
20. APRIL
21. B से धँघे पग्मे वैट घेठण जे?
22. A
23. C
24. D
25. E
26. C हे मॅसे पग्मे वंट षैठणनै?
27. A
28. B
29. E
30. F

 उँष विगनी हिसा इँ्ड गे ?
31. छैंडठ
32. हँษट
33. पूटष
34. जैद्रम

 वे भड्डे सिॅव गी वीमउ हप्टी मितब सिॅव गी भॅषतने।
हिँउग्जे $\mathrm{E}=4$
35. 0 ही वीभउ वीजे?

$$
\begin{array}{r}
\mathrm{L} \text { E T } \\
+\begin{array}{r}
\mathrm{T} \\
\mathrm{~T}
\end{array} \\
\hline \mathrm{LOSS} \\
\hline
\end{array}
$$

1. 3
2. 1
3. 0
4. 2
5. S ही वीमझवी गे?
6. 8
7. 6
8. 4
9. 2

 थैहे चरा
10. 1074
11. 1075
12. 1076
13. 1077


14. $A$ हा ब्रात $B$ राल ड्रॅठाट जै।
15. B सा बुन C तर्ले मा्दे बन काटा सिभण्ये।

16. D हा डुव E हे क्रावहाल्लँ भपा गे।


17. D
18. C
19. $B$
20. $A$
21. गेठ किएिणे दिंचे मब तैं उुगी दमड़ु विजनो गै ?
22. E
23. D
24. A
25. C
26. सँधठ चुट-
27. मउँघव
28. तुग्पी
29. मЕी
30. अप्षैल

32．Determine the Relationship
CLOSE：DNRWJ：：OPEN：
1．RZWR
2．RPJB
3．PRHR
4．PRJQ

33．TEACHER，COLLEGE，STUDENT，which figure represented it？

1.

2.

3.

4.

34．If＇green＇is called＇red＇，＇red＇is called＇blue＇，＇blue＇ is called＇white＇，＇white＇is called＇yellow＇，＇yellow＇ is called＇violet＇then what is the colour of grass．
1．Green
2．Red
3．Yellow
4．Violet

35．In a certain code language，＂Sue Re NIK＂means ＂She is brave＂．＂Pi sor Re NIK＂means＂She is always smiling＂and＂Sor Re Zhi＂means＂is always＇ cheerful．＂What is the code used for word ＂smiling＂？
1．Sor
2．NIK
3． Re
4． Pi

36．In the following sequence of Instructions，I stands for RUN， 2 stands for STOP， 3 stands for GO， 4 stands for SIT and 5 stands for WAIT，If the sequence were to continue，which instruction with comenext？
44545345314531245453453
1．Wait
2．Sit
3．Run
4．Stop

In the following figure，rectangle，square，circle and triangle represent the regions of wheat，gram，maize and rice cultivations，respectively．Give the answer．


37．Which area is cultivated by rice and maize and nothing else？
1． 9
2． 8
3． 7
4． 2

32．मदेय मकर्णथिड वते：
CLOSE：DNRWJ：：OPEN：
1．RZWR
2．RPJB
3．PRHR
4．PRJQ

33．TEACHER，COLLEGE，STUDENT $\overline{6}$ गेठ fिfिभ


1.

2.

3.

4.

34．सेवत चते तें खाष，एाष के ठौका विग जादे। तीटे है
 विचा नाद्ये का भाग हा वैवा वी गेदैवार？
1．गठ
2．हाइ
3．पील्ल
4．शैनाटी

35．विमे वैइ छगमा＂छ＂Sue Re NIK＇ला भवष＂She is brave＂नी।＂Pi sor Re NIK＂टा भत区＂She is always smiling＂今े＂Sor Re Zhi＂टा भगष＂is always
 बीठो नादेगी।
1．Sor
2．NIK
3． Re
4． Pi
 इँसटा， 2 हा भडलघ すॅवटा， 3 हा मडलूप संले， 4 हा मउमपष्व घेठटा मंडे 5 सा अउप्रघ जिछीव वगता डै। सेवत
 भुउधिर विगझाभॅँच भाद्टेगा？
44545345314531245453453
1．合约
2．चैठटा
3．संइठा
4．वृँडा

सिँडी चैट्टी प्रवल द्वरस，भाह्टिड，दठता，सँवत मके उिवेट भॅठो टिंडे लझी भठुमग्न षेउत वटव，हैले，मॅवी मडे चाबह


 छुठचीं समम हुंस ？
1． 9
2． 8
3． 7
4． 2

Observe the colours and answer the following:-

38. Which coloured surface is opposite to yellow colour.

1. Green
2. Orange
3. Red
4. White
5. How many cubes are there in the given figure?
6. 132
7. 138
8. 140
9. 142


Direction Question (40). Given four figures three figures are similar in a certain manner, Choose the different one. (Odd one out)
40.


Dircction Question (41). The following question consists of four problem fig. ABCD and four answer figures Marked (1.) (2.) (3.) (4.) select the gif. from amongst the answer figures which will continue the serial.
41. Problem Figure

| $\mathrm{X} \Delta 10 ?$ | $? \mathrm{XOA1}$ | $1 ? \Delta \mathrm{X0}$ | $0+\mathrm{X?} \mathrm{\Delta}$ |
| :---: | :---: | :---: | :---: |
| A | B | C | D |

Answer Figure

| $\triangle ? X \nmid O$ | $\triangle Q \mid X ?$ | $+X ? \Delta O$ | $\Delta O ? 1 X$ |
| :---: | :---: | :---: | :---: |
| 1. | 2. | 3. | 4. |



 मल्टेाग?

1. गवर
2. मिंडी
3. हग्ल
4. मढेस
5. सिंडे वापे चिँउव दिँच विंहे यट गत?
6. 132
7. 138
8. 140
9. 142


किब्टेश पष पर (40) चग fिंडब fएँंडे गापे गर, fिक चिँडब
 ही चैंट बचे (दॅधठा सृहै)।
40.



 चुटे।
41. प्मत चिन डब

| $\mathrm{X} \Delta 10$ ? | ? XO $\Delta 1$ | $1 ? \Delta \mathrm{XO}$ | $0+\mathrm{X} \triangle \Delta$ |
| :--- | :--- | :--- | :--- |

छैंडवसिंड

| $\triangle ? \mathrm{X} \mid \mathrm{O}$ | $\Delta \mathrm{O} \mid \mathrm{X} ?$ | $\mid \mathrm{X} ? \Delta \mathrm{O}$ | $\Delta \mathrm{O} ?+\mathrm{X}$ |
| :---: | :---: | :---: | :---: |
| 1. | 2. | 3. | 4. |

42. Fig. A and B are related in some way. According to same relationship among C and D. Choose the correct alternate.

## Problem Figure



Answer Figure

43. What is the minimum number of different colours required to paint the given fig. such that no. two adjacentregions have the same colour?


1. 5
2. 4
3. 3
4. 2
5. How many triangles and parallelograms are there in the following figure?

6. 21,17
7. 19,13
8. 21,15
9. 19,17

 छैट वतै।
प्तह चिंड


शैंडनचिंडत


 गी वैंा हा गैदे?


1. 5
2. 4
3. 3
4. 2
 घड्रठड्न चत?

5. 21,17
6. 19,13
7. 21,15
8. 19,17

45．Find the water image of figure＇$X$＇：

（X）

1.

2.

3.

4.

46．Find the mifror image of the following． NTSEscoLeR
1．Яo」oosヨ2TИ
2．ЯэЈосзЕ乙ТИ
3．YoLoos ESNT
4．Я๐ノоэаヨатИ

47．Which three figures among five figures $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$ \＆ E will forms a complete square．

A

B

C

D E
1． ABC
2．$B C D$
3． CDE
4． BCE

48．A square transparent sheet with a pattern is given． Fig．out fromamongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line．

Transparent Sheet．


Response Sheet．

1.

2.

3.

4.

Direction Question（49），Paper has been folded as shown with the dotted lines in the given fig．PXYZ \＆ paper has been cut．How would the paper look like when unfolded．
49.

P

X

Y

Z

45．पग्टी हिँच छेधट ते चिँउन＇$X$＇किस उतृ＇हु हिमिठा？

（X）

 NTSEscoLeR
1．ЯэJoosヨ己TИ
2．タッJocaЕटTИ
3．ЯoLoosESNT
4．ЯョЈoszヨСТИ

47．सिँठे ठाटे पैन उिंडठं $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}$ डे E दूँसं विगने निंत चिंडन मिलके सिथव दतरा घट＇ढिटतो।

A

B

E
1． ABC
2． BCD
3．CDE
4．BCE

48．氏िवं दठताव्वम्त मीट पेटकठ घटा के चिंडी वाप्टी चै，चिँडन

 मिझल नाहा चै। विम उढ़＇चिष्टी रेदेकी।
Transparent Sheet．


Response Sheet．

1.

2.

3.

4.


 विभ्र उदृं टिषेगार। बैंडव हिध।
49.


50. Select among four alternatives which complete the given Matrix.


## PHYSICS

51. A body of mass 1 kg jnitially at rest is moved by a horizontal force of 0.5 N on a smooth frictionless table. The work done by force in 10 sec , is
52. 10.5 J
53. 12.5 J
54. 20 J
55. 22 J
56. A boy hears an echo of his own voice from a distant hill after 2 seconds. The speed of sound in air is 350 $\mathrm{m} / \mathrm{s}$. The distance of the hill from the boy is
57. 175 m
58. 200 m
59. 350 m
60. 250 m
61. An electric heater consists of 20 m length of manganin wire of $0.23 \mathrm{~m}^{1}$ crossectional area. Wattage of heater when potential difference across the heater is 200 v is
62. $10^{\mathrm{h}} \mathrm{W}$
63. 100 W
64. $10^{\circ} \mathrm{W}$
65. $10^{\prime} \mathrm{W}$
66. A beam of white light when passes through a glass prism, a spectrum is observed. But when same beam prism, a spectrum is observed. But when same
of light passes through hollow grass prism then
67. Spectrum is same
68. Spectrum becomes brighter
69. There will be no spectrum
70. Colours of spectrum reversed


71. 10.5 J
72. 12.5 J
73. 20 J
74. 22 J

 $\mathrm{m} / \mathrm{s}$ बै।
75. 175 m
76. 200 m
77. 350 m
78. 250 m
 20 m हैप्वम्टी द्वा्डी भे तवर्गकित सी उप्व से पतिषेडत ली वा्ट हा षेडबढक $0.23 \mathrm{~m}^{2}$ गै। हिम विनळ गीटब ही मवडी ढै -
79. $10^{6} \mathrm{~W}$
80. 100 W
81. $10^{\circ} \mathrm{W}$
82. $10^{\circ} \mathrm{W}$



83. ब्रमी उतृं हा मपेकट्लमिक्र वे।
84. मपेवट्मनैठ डीषण वै तांहा ये।
85. वप्टी मथेबट्ल कची मिलट।
86. मयैक्ट्ल टे वैठा बिएरे गै सांटे उह।
87. When a current carrying conductor is placed in a direction parallel to the magnetic field, foree on conductor is
L. Zero
88. 100 N
310 N
89. 1000 N
90. An object of size 4 cm placed perpendicular to the principal axis of concave mirror. The distance of the object from the mirror equals radius of curvature. The size of the image will be:
91. 1 m
2, 2 m
92. 3.5 cm
93. 4 cm
94. The most important safety method used for protecting home appliances from short circuiting or overloading is
95. Earthing
96. Use of fuse
97. Use of stabilizer
98. use of electric meter
99. The equivalent resistance between the points $A$ and $B$ in the circuit as shown in the figure given below is

100. 1 ohm
101. less than 1 ohm
102. more than 1 ohm
103. 8 ohm
104. The masses of 10 kg and 20 kg respectively are connected by massless spring. A force of 200 N acts on the 20 kg mass. At the instant shown, the 10 kg mass has an acceleration of $12 \mathrm{~m} / \mathrm{sec}^{2}$. What is the acceleration of 20 kg mass?

105. $12 \mathrm{~m} / \mathrm{sec}^{2}$
106. $4 \mathrm{~m} / \mathrm{sec}^{\mathrm{t}}$
107. $20 \mathrm{~m} / \mathrm{sec}^{2}$
108. $5 \mathrm{~m} / \mathrm{sec}^{2}$
109. A bullet of mass 0.1 kg is fired with a speed of 100 $\mathrm{m} / \mathrm{sec}$., the mass of gun is 50 kg . The velocity of recoil is
110. $0.2 \mathrm{~m} / \mathrm{sec}$
111. $0.1 \mathrm{~m} / \mathrm{sec}$
112. $0.5 \mathrm{~m} / \mathrm{sec}$
113. $0.05 \mathrm{~m} / \mathrm{sec}$
114. Which of the following frequency of sound can be generated by a vibrating simple pendulum as well as by the vibrating vocal cords of a rhinocerous?
115. 8 Hz
116. 25 Hz
117. 10 Hz
118. 15000 Hz

 लवाभा द्व
I. हीचे
119. 100 N
310 N
120. 1000 N
121. लैवठ बँप्टी 4 मत ची दमडू मदडक चवपट से मॅष पुते डे


122. 1 भी
123. 2 hी
124. 3.5 मम
125. 4 मल


126. उै मिपतर
127. विछित्त ही दवडें
128. भटेघिल प्टीक्तर ही दुङं
129. घिनमी मौटव टी दव亏ं
 प्डीवपपविहर गैदेवा?

130. 18 हिम
131. 1 हिगतन अัट
132. 1 हिगभ डैं दूप
133. 8 हिडर
 उटबण्तिट के 20 kg प्रत्त के 200 N घ्रक लवार्गिभा विभा कडे 10 kg ड्रंत्न निंच $12 \mathrm{~m} / \mathrm{sec}^{\mathrm{T}}$ पूद्हेवा हैंट कीउा गिभा। 20



10 kg

1. $12 \mathrm{~m} / \mathrm{sec}^{2}$
2. $4 \mathrm{~m} / \mathrm{sec}^{2}$
3. $20 \mathrm{~m} / \mathrm{sec}^{2}$
4. $5 \mathrm{~m} / \mathrm{sec}^{\prime}$
5. 0.1 kg ही वौडी $100 \mathrm{~m} / \mathrm{sec}$ ही वाडी हाप्ल चक्टाप्टी वाही। सेवत बैड़व हा yीज 50 kg गैबे उं इटवे (Recoil) er देगा पउर वैं।
6. $0.2 \mathrm{~m} / \mathrm{sec}$
7. $0.1 \mathrm{~m} / \mathrm{sec}$
8. $0.5 \mathrm{~m} / \mathrm{sec}$
9. $0.05 \mathrm{~m} / \mathrm{sec}$
10. मपाठत थेंइसभ ही भर्थटडडी वाडी हाॅ्ड विम हीषउडा ची प्रैती थिट्ट वैझेती।
11. 8 Hz
12. 25 Hz
13. 10 Hz
14. 15000 Hz
15. Which of the following is not an example of biomass energy source?
16. Wood
17. Garbage
18. Atomic energy
19. Coal
20. A needle placed 45 cm from a lens forms an image on a screen placed 90 cm on the other side of lens, focal length and typc of lens is
21. +10 cm , Convex lens
22. +30 cm , Convex Iens
23. +30 cm . Concave lens
24. +10 cm , Concave lens
$\frac{1}{46}$.

## CHEMISTRY

64. If 1.5 moles of oxygen gas combines with solid Aluminium to form $\mathrm{Al}_{2} \mathrm{O}_{2}$. What is the mass of Aluminium used in the reaction?
65. 27 gm
66. 54 gm
67. 40.5 gm
68. 81 gm
69. A student test the pH of distilled water and found that the colour of pH paper changed to green. He checked the pH again after dissolving a pinch of common salt in water. The colour of pH paper this time will be:
70. Green
71. Yellow
72. Red
73. Blue
74. On electrolysis of brine solution the products formedare:
75. $\mathrm{Na}^{\text {and }} \mathrm{Cl}_{2}$
76. $\mathrm{H}_{2}, \mathrm{O}$, and $\mathrm{Cl}_{2}$
77. $\mathrm{H}_{2}, \mathrm{Cl}_{2}$ and NaOH
78. $\mathrm{NaOH}, \mathrm{Cl}_{2}$ and $\mathrm{O}_{1}$
79. What is the valancy of an element having atomic number 18 .
80. 2
81. 8
82. Zero
83. 6
84. Number of molecules present water respectively
85. $6.023 \times 10^{33}$ and 1
86. 6.0. and 18
87. 18 and $6.023 \times 10^{13}$
88. 1 and $0.023 \times 10^{31}$
89. By adding acetic acid to solid " X " a coloriess and odourless gas " Y " is cvolved. The gas " Y " tums lime water milky. What are X and Y .
90. X is Sodium carbonate and Y is $\mathrm{CO}_{3}$,
91. X is Sodium hydro-oxide and Y is $\mathrm{CO}_{\text {, }}$,
92. X is Sodium acetate and Y is $\mathrm{CO}_{2}$.
93. X is Sodium bicarbonate and Y is $\mathrm{SO}_{3}$.
94. High melting point of a compound indicates
95. Strong intermolecular forces.
96. Kinetic Energy of molecules is more.
97. Speed of molecules is more.
98. Compound can diffuse easily

99. ल"बज
100. वुला बवबट
101. प्लग्टु हिठता
102. वैला

 सी हबए ट्रती Mडे पवानगै।
103. +10 cm , जि उल रेतक
104. +30 cm , ज्विडल हेतक्ष
105. +30 cm , मद्यल सेतक्त
106. +10 cm , भदउल हैंत्स

## उमग्शिट fद्यविभाग्त

64. से 1.5 मेख मग्वमीनल वौम, मेखुभीठीमल ठाह स्तन से


65. 27 वाल
66. 54 गृभ
67. 40.5 वृभ
68. 81 गृभ
69. घिँर द्विसिभाग्री हे वमीटिंड पग्टी ही pH ही चतष वीडी



70. गठ
71. ทौका
72. हाल
73. हीक्डा
 ठग्ड विचने ज्ञिकप्ट घट्ये गत?
74. Na Mडे $\mathrm{Cl}_{2}$
75. $\mathrm{H}_{2}, \mathrm{O}_{2}$ आडे $\mathrm{Cl}_{5}$
76. $\mathrm{H}_{2} \mathrm{Cl}_{2}$, भडे NaOH
77. $\mathrm{NaOH}, \mathrm{Cl}_{2}$ भडे $\mathrm{O}_{2}$

78. 2
79. 8
80. हींडे
81. 6
82. ब्भद्व 18 वाल फडे 18 U पा्टी रिंच जली है विंते मट्ज बैटोग
83. $6.023 \times 10^{17}$ अडे ।
84. $6.023 \times 10^{17}$ भडे 18
85. 18 Mडे $6.023 \times 10^{23}$
86. 1 मडे $6.023 \times 10^{11}$

 $Y$ đौम चुहे से पाटी दिंस सैयन्र्रिट के चुरे टा अग्टी

 ठीसबै।
 भव्वमग्हीइ ठौमय।
87. X मैझीभस मेमीटेट फढे Y वग्ठष्षतहप्टीभावपम्पीक ठोलすे।
88. X मौहीफल घाप्हीवग्वघँठेट आडे Y महढ़बछाटीभग्वमम्हीक वौम बै।

89. भट्समी बिँचमनहुड देयठ।
90. ठेम टे मट्भा टी दंप बाउडन धिवते।
91. भट्रभां ही दूपयाडी।

92. A metal on heating in presence of air gives compound which is soluble in water and have high melting point. The metal is:
L. Calcium
93. Carbon
94. Silicon
95. Iron
96. An element which is essential constituent of all organic compounds belongs to which group in Periodic Table.
97. Group 2
98. Group 14
99. Group 16
100. Group 17
101. How many covalent bonds are present in Pentane?
102. 8
103. 10
104. 16
105. 14
106. Which one of the following is not an isoelectronic with Neon atom
1., $\mathrm{O}^{4}$
107. " $\mathrm{Na}^{"}$
108. $\mathrm{F}^{4}$
109. ${ }^{2} \mathrm{Mg}^{\text {" }}$
110. The formula of sulphate of element X is $\mathrm{X}_{2}\left(\mathrm{SO}_{2}\right)$, The formula of nitride of element X is.
111. $\mathrm{X}_{2} \mathrm{~N}$
112. $\mathrm{XN}_{t}$
113. XN
114. $\mathrm{X}_{2} \mathrm{~N}_{3}$
115. Three test tubes containing:

Test Tube X: 5 ml of HCl
Test Tube $\mathrm{Y} ; 5 \mathrm{ml}$ of $\mathrm{HNO}_{1}$
Test Tube Z: 15 ml of $\mathrm{HCl}+5 \mathrm{ml}$ of HNO ,
A small piece of metal was added in all the three test tubes. Itdissolves only in Test Tube Z. The metal is:

1. Al
2. Au
3. Cu
4. Ag

## BIOLOGY

77. Match the column I with the column II.

Column I
i. Renal artery
ii. Kidney
iii. Ureter
iv. Urinary bladder

## Column II

a. It stores the urine untill it is rele. ned through the Urethra
b. It passes urine from kidney to urinary bladder.
c. It filters the blood and forms urine.
d. It bring blood to the kidney for filtering waste.

 वै। पन्डाराभवी ने?

1. वैलम्मीभभ
2. वग्वपर
3. मिलीवण्त
4. छँ ग
 टे विम उाउुॅप रण्ड मघंय वंधहाने?
5. वाठँय2
6. बाॅर 14
7. उाॅप 16
8. वाॅर 17

9. 8
10. 10
11. 16
12. 14
13. गेठ लिखिभां दिँच किम दिँच किभाठ प्भन्ट्र है घउग्यत हिङेबट्ए हर्ती यल्हे त्ञले?
14. $\mathrm{O}^{2}$
15. ${ }^{\prime} \mathrm{Na}^{4}$
16. ${ }^{,} \mathrm{F}^{-1}$
17. ${ }_{12} \mathrm{Mg}^{44}$
18. उँउ X हा छिभ से मझढेट र करू जैविव हा मृउत $\mathrm{X}_{2}\left(\mathrm{SO}_{4}\right)_{3}$ गै। हिम डॅड X हा धुम टे रप्टीट्म्पीब ठाल वी मुउत गैबेगा?
19. $\mathrm{X}_{2} \mathrm{~N}$
20. $\mathrm{XN}_{2}$
21. XN
22. $\mathrm{X}_{1} \mathrm{~N}_{3}$
23. fित पवस रूलीभt:

पठषठही \& दिँ 5 fि मिt. HNO , पठषतही वादिँच 15 fि ही. $\mathrm{HCl}+5$ fि ही. $\mathrm{HNO}_{3}$

 चै। पान्ड लिभर रिंच विजही बैदेगी?
24. Al
25. Au
26. Cu
27. Ag

## सीद्ध fिवाभात



वालभ1
i. तागटा पमटी
ii. वाठटे
iii. भुउत टचिही
iv. Hुउठममट्टा

## वालमाI

a. शिय भ्लउत के जिसे उँव सभा वतली जै मलं उँव फ्रुत मग्वता हिम छै वँस रे हेट।
b. हित भुउत है गाठसिभी नैं भुउत भमా्टा अँव पड़ुण्तिसी।
 भुउत खट़िंटी जै।
d. हिच हण ॠ गानeे उंव हलडू पहग्वमें \%े दिलटन बगठ एटी सिभम्टी ने।

| 1. i-d | ii-c | iii-b | iv-a |
| :--- | :--- | :--- | :--- |
| 2. $i-\mathrm{a}$ | ii-b | iii-c | iv-d |
| 3. i-b | ii-a | iii-d | iv-c |
| 4. i-c | ii-b | iii-a | iv-d |

78. Which one of the following is the function of the enzymes of Pancreatic Juice?
79. trypsin digests protein and lipase digests carbohydrates
80. trypsin digests emulsified fats and lipase digests proteins
81. trypsin and lipase digest fats
82. trypsin digesis proteins and lipase digests emulsified fats.
83. Which of the following is not a correct pair :-
84. Adrenaline
: Pituitary gland
85. Testosterone
: Testes
86. Estrogen
: Ovary
87. Thyroxine
: Thyroidgland
88. Pine and Dcodar are the example of
t. Gymnosperms
89. Pteridophyta
90. Thallophyta
91. Bryophyta
92. Khadins, Bundhis and Ahars are ancient structures that are example of
93. Grain storage
94. Wood storage
95. Water harvesting
96. Soil conservation
97. Read the following statements and select the correct option
Statement I: Snails and Mussels are Molluseans.
Statement II : Sea Urehins and Scorpions are echinodermates
98. only statement I is true
99. only statement $\Pi$ is true
100. Both statements 1 \& II are true
101. Both statements I \& II are false
102. ............................ in Eukaryotes is separated from the cytoplasm by double layered membrane and it directs the life process of the cell.
103. GolgiApparatus
104. Nucleus
105. Lysosome
106. Ribosome
107. A feature that is common in yeast, amoeba, paramecium is
108. They all are multi cellular
109. They all reproduce by budding
110. They all reproduce by binary fission
111. They all are unicellular
112. i-d ii-c iii-b iv-a
113. i-a ii-b iii-c iv-d
114. i-b ii-a iii-d iv-c
115. i-c ii-b iii-a iv-d
 बँ $Н$ चै?
 टे पम्बह हटी


116. ट्थिमत प्टीटी भडे ए ल्टोपेत्त चतघी रे यन्डर छही

117. भैछगौतर्गकित
118. टैमटैमटौठत
119. भमटवेकत
120. घगिवम्वमिक
121. यमीठ Mडे (Deodar) fिशिसाव विम हीभां बिहाजनरां जह।
122. निमहैमयव
123. टेठोठ̄ढापीटा
124. विलेंद्टीटा
125. वृर्णटिधिब्हीटा
 बिचग्यकरा गत।
126. महग्न छैइगठ
127. लवन डैडग्वर
128. लह छैडग्र
129. Fिँटी टौ मंबएक



130. बैदल वषठा मची गै।
131. वैद्ञ वषठ 11 मगी गे।
132. वसत 1 भठे वषत 11 हैटै मरी उठ।
133. बसर IMडे वसत $I I$ हैं वालड चत।
134. जबेतेबिटम द्सँध .हंगी fिंडी ड़भाठ
 विविभ्य लट्री कितटेम fिंता गे।
135. वाँलती वस्थिभाद्ध
136. वैंटबन
137. छग्टीमैमिभ
138. वा्टीदेमेम

139. हिव माठे भवुमेखी गठ
140. Eिर मग्ठे पहिता उग्गी प्तटठ बउटे गक
141. हिग मावे टै धैछह दिपी उच्ची प्नटह बगटे गर
142. हिय मगे सिव मेलौ गठ
143. Which blood constituent makes up more of the volume of blood
144. Redbloodcells
145. Plasma
146. Blood protein
147. White blood cells
148. Homologous organs are
149. Dissimilar in origin, similar in function.
150. Dissimilar in origin and dissimilar in function.
151. Similar in origin and similar in function.
152. Similar in origin and dissimilar in function.
153. What is the correct direction of flow of electrical impulses in nerve cells?
154. 


2.
3.

4.

88. You observed a slide of animal tissue and observed (i) long cylindrical and unbranched cells (ii) They had dark and light bands. The tissue could be of

1. Unstriated muscle fibres
2. Neurons
3. Striated muscle fibres
4. Cardiac muscle fibres
5. Which organ is infected when a person suffers from Jaundice?
6. Bones
7. Liver
8. Lungs
9. Nervous system
10. The animals having jointed legs belongs to phylum
11. Annelida
12. Arthropoda
13. Mollusca
14. Nemstoda

## MATHEMATICS

91. If $p+q+r=0$ then the value of

$$
\frac{2 p^{2}(q+r)+2 q^{2}(p+r)+2 r^{2}(p+q)}{p q r}
$$

will be

1. 3 pqr
2. $\frac{1}{p q r}$
3. 6
4. -6

5. एल बवउाट्ए
6. पल्ल स्षम्न
7. घच पुटीत
8. मबेस गवडा्ट
9. मНत्ता रीवा

गठ।

1. मुल्ल तचठ छित, वग्त मभएत
2. मूल उसता बिंठ भडे वग्तन ही डित
3. Hल वसहर मम'त भडे वर्त्त ही मभए
4. मुक्ष वसहा मभग्ठ भंडे वर्वन बिंक
5. ठाह्नी मैल fिंड घितकही भन्झेता सा भची टिमा हा इचभी विगक्ना ?
6. 


3.

4.

88. संडू सिपू टी मलप्टीच देधट डे उ़मीं देधरे नु (i) सँये
 टिय वियन्ञा टिमू चै मवहा नै।

1. पग्ठी उणिड चेसी टिस्स
2. तन्ची मिल
3. प््वौटन पेसी टिस्त
4. निल पेषी टिस्न
 भंता प्डर्गरिड जेबेगा?
5. चॅडीमत
6. निवान
7. बेछचे
8. ठाज्नी पृटमही
9. जैनलग्त छंडा दा्डे सैड्ड विम डाप्टीकम रुह मखंय तैपरे चह?
10. भैलीलिछा
11. भग्वष्पैजा
12. मैलमवर
13. हिभण्टैझा

## वाटि

91. सेवत $p+q+r=0$ चैदे $3^{k}$

$$
\frac{2 p^{2}(q+r)+2 q^{2}(p+r)+2 r^{2}(p+q)}{p q r}
$$

सा मुष चेटेठा:

1. 3 pqr
2. $\frac{1}{\mathrm{pqr}}$
3. 6
4. -6
5. A circle is inscribed in a square of side 2.5 cm . Another circle is circumscribing this square. The ratio of areas of outer circle and inner circle is
6. $1: \sqrt{2}$
7. $\sqrt{2}: 1$
8. $2: 1$
9. $\sqrt{3}: 1$
10. If $x=\frac{1}{\sqrt{3}-1}$ then find the value of $4 x^{3}+2 x^{3}-8 x-3$.
11. 0
12. 2
13. -2
14. $\sqrt{2}$
15. How many revolutions will a circular wheel of radius $r$ units will make to cover a distance of 100 times its diameter?
16. $\frac{100}{\pi}$
17. $100 \pi$
18. $\frac{\pi}{100}$
19. $\frac{50}{\pi}$
20. If $\tan \phi+\cot \phi=1$ then the value of $\sin \phi+\cos \phi$ will be equal to (where $\phi$ is an acute angle)
21. 0
22. $\sqrt{2}$
23. $\sqrt{ } 3$
24. 1
25. If ph term of an AP is $q$ and qth term is $p$ then $m$ th term of this AP will be:
26. $p+q+m$
27. $p+q-m$
28. $\mathrm{p}-\mathrm{q}-\mathrm{m}$
29. $p-q+m$
30. Two dice are thrown. Find the probability that sum of numbers of both up sides of both dice is a perfect square.
31. $\frac{1}{6}$
32. $\frac{7}{36}$
33. $\frac{5}{36}$
34. 0
35. From the top of a tower of h m high, the angles of depression of two objects, which are in line with the foot of the tower are $\alpha$ and $\beta(\beta>\alpha)$. Find the difference between two objectives.
36. $h(\tan \alpha-\tan \beta)$
37. h $(\cot \alpha-\tan \beta)$
38. h $(\cot \alpha-\cot \beta)$
39. h $(\cot \alpha+\cot \beta)$
40. If the distance between the points $(4, q)$ and $(1,0)$ is 5 units then the value of $q$ is -
41. 4
42. -4
43. $\pm 4$
44. 0
45. The area of an equilateral triangle is $49 \sqrt{3} \mathrm{~cm}^{2}$. Taking each vertex as centre, circles are described with radius equal to half the length of the side of the triangle. Find the area of the triangle. Find the area of the part of the triangle which is not included in these circles. $\left(\sqrt{3}=1.73, \pi=\frac{22}{7}\right)$

46. $77.7 \mathrm{~cm}^{1}$
47. $70.7 \mathrm{~cm}^{2}$

$\sqrt{3}^{2} \times 963,1029$
$4<1035$



 यडे वर्वै।
48. $1: \sqrt{2}$
49. $\sqrt{2}: 1$
50. $2: 1$
51. $\sqrt{3}: 1$
52. नेरत $x=\frac{1}{\sqrt{3}-1}$ आर $4 x^{3}+2 x^{2}-8 x-3$ हा मुक्र यब्वावते।
53. 0
54. 2
55. -2
56. $\sqrt{2}$
 दिभग्म ही 100 वाटा हूठी डैभ वतर घटी विते तँवत लवाण्बें पैटनी?
57. $\frac{100}{\pi}$
58. $100 \pi$
59. $\frac{\pi}{100}$
60. $\frac{50}{\pi}$


61. O
62. $\sqrt{2}$
63. $\sqrt{3}$
64. 1
 है $m$ दे पर सा मुल चैदेडा :
65. $p+q+m$
66. $\mathrm{p}+\mathrm{q}-\mathrm{m}$
67. $p-q-m$
68. $p-q+m$


69. $\frac{1}{6}$
70. $\frac{7}{36}$
71. $\frac{5}{36}$
72. 0



73. h( $\tan \alpha-\tan \beta)$
74. $\mathrm{h}(\cot \alpha-\tan \beta)$
75. $h(\cot \alpha-\cot \beta)$
76. $h(\cot \alpha+\cot \beta)$


77. 4
78. -4
79. $\pm 4$
80. 0



 हचौंभीिए।
( $\sqrt{ } 3=1.73, \pi=\frac{22}{7}$ )
81. 84 हबता मल
82. 77.7 डबता $म$ H
83. 7.77 दृगा मभ
84. 70.7 चठठामम
85. If $\sqrt{(0.04 \times 0.4 x)}=0.4 \times 0.04 \sqrt{y}$. Then the value of $\frac{x}{y}$ is
86. 0.0016
87. 0.16
88. 0.016
89. 1.6
90. One litre of water weighs 1 kg . How many cubic millimetres of water weigh 0.1 gm ?
91. 100
92. 10
93. 1
94. 0.1
95. If $x=\sqrt[3]{\frac{93}{125}}$, then the value of $x$ is: $\frac{7}{8} \quad \frac{3}{8}$
96. $2 \frac{1}{5}$
5.3. $1 \frac{2}{5}$
97. $3 \frac{4^{2}}{5}$
98. $4 \frac{1}{5}$
99. सेवत $\sqrt{(0.04 \times 0.4 x)}=0.4 \times 0.04 \sqrt{y}$ बैदे उा $\frac{x}{y}$ हा मुक वी चेटेगा?
100. 0.0016
101. 0.16
102. 0.016
103. 1.6
104. पिँव किटत पर्टी सा ब्ब 1 विलवाप गै। विंहे यट फिलीमीटत यन्टी टा झुन 0.1 वाभजे?
105. 100
106. 10
107. 1
108. 0.1
109. सेवत $x=\sqrt[3]{2 \frac{93}{125}}$ बैदे उा $x$ हा भैश बैद्रित्या :
110. $2-\frac{1}{5}$
111. $1 \frac{2}{5}$
112. $3 \cdot \frac{4}{5}$
113. $4 \frac{1}{5}$

 घठग्यव Јेनेना:
114. 10
115. 6
116. 12
117. 24
118. If $x$ men can do a piece of work in 8 days and $(x+4)$ * men can do the same work in 6 days then $x$ is equal to:
119. 10
120. 6
121. 12
122. 24
$\frac{8}{8} \frac{\frac{1}{2}}{\frac{6 i}{2}=\frac{1}{40}-4}$
123. If $x^{2}+y^{2}+z^{2}-r^{2}$ where $x=r \sin A \cos B, y=r \sin A \sin$ $B$ then 2 has one of the following values:
124. $\mathrm{r} \sin \mathrm{B}$
125. $\mathrm{r} \cos \mathrm{A}$
126. $r \tan A \cos B$
127. $r \tan A \tan B$

128. सेवठ $x^{2}+y^{2}+z^{2}=r^{2}$ निएसे $x=r \sin A \cos B, y=r \sin A \sin$ $B$ नेदे उां गेठ लिखिभा दिसे ' $Z$ ' टी विचझी वीमड चेदेगी?
129. $r \sin B$
130. $r \cos A$
131. $r \tan A \cos B$
132. $r \tan A \tan B$
133. Find the solutions for ' $x$ ' in eqn. $\frac{1}{a+b+x}=\frac{1}{a}+\frac{1}{b}+\frac{1}{x}$ is :
134. $-\mathrm{a}_{\mathrm{a}}^{2} \mathrm{~b}$
135. $-\mathrm{a},-\mathrm{b}$
136. $a_{3}-b$
137. $a, b$

138. In the given figure, ABCD is a cyclic quadrilatical. If $\angle \mathrm{BAC}=60^{\circ}, \angle \mathrm{BCA}=20^{\circ}$ then find the value of $\angle \mathrm{ADC}$ ?

139. $15^{\circ}$
140. $50^{\circ}$
141. $80^{\circ}$
142. $40^{\circ}$
143. A coppers wire when bent in the form of a square, enclose $\beta$ an area of $484 \mathrm{~cm}^{2}$. If the same wire is bent in the formo of circle, the area enclosed by it is:
144. $210 \mathrm{~cm}^{2}$
145. $512 \mathrm{~cm}^{2}$
146. $616 \mathrm{~cm}^{2}$
147. $54 \mathrm{~cm}^{3}$
12 $c^{2}$
148. मभौवगट हिँ ' ' $x$ ' घटी मुँल की चे रेगा:
$\frac{1}{a+b+x}=\frac{1}{a}+\frac{1}{b}+\frac{1}{x}$ is :
149. $-\mathrm{a}, \mathrm{b}$
150. $-\mathrm{a},-\mathrm{b}$
151. $\mathrm{a},-\mathrm{b}$
152. $a, b$
153. सिँडे fिंडठ दिँ ABCD सिव सॅवती सड़इत जे, तेवठ $\angle \mathrm{BAC}=60^{\circ}, \angle \mathrm{BCA}=20^{\circ}$ चेदे ता $\angle \mathrm{ADC}$ हा मुप्ठ पडा घठे।

154. $15^{\circ}$
155. $50^{\circ}$
156. $80^{\circ}$
157. $40^{\circ}$


 विंतृं षेड्रठढल सेवेगी?
158. 210 हठता भम
159. 616 रतवा मी
160. 512 रठवा मम
161. 54 दृता मम
162. The mean temperature of Monday to Wednesday was $37^{\circ} \mathrm{C}$ and of Tuesday to Thursday was $34^{\circ} \mathrm{C}$. If the temperature on Thursday was $4 / 5$ th that of Monday. Then the temperature of Thursday was:
163. $35.5^{\circ} \mathrm{C}$
164. $34^{\circ} \mathrm{C}$
165. $36.5^{\circ} \mathrm{C}$
166. $36^{\circ} \mathrm{C}$
167. In a box containing 100 bulbs, 10 are defective. What is the probability that out of a sample of 5 bulbs none is defective.
168. $10^{-5}$
169. $\left(\frac{9}{10}\right)^{-5}$
170. $\left(\frac{1}{2}\right)^{s} \quad \begin{aligned} & 1-0,100 \\ & \text { Q }+20^{2}\end{aligned}$
171. $\left(\frac{9}{10}\right)^{3}$

## HISTORY

111. In IMF and World Bank, the decisions are taken by-
112. developing nations
113. a joint council of developed and developing countries
114. Western industrial powers
115. least developed nations
116. What led to town planning of the city of Bombay in 1880?
117. The social tension
118. Poverty
119. Fear of plague epidemics
120. Riots
121. Which of the following novel deals with caste oppression?
122. Sultana's Dream
123. Indulekha
124. Saraswati Vijayam
125. Padmarag
126. Who described Mazzini as the most dangerous enemy of our social order?
127. Victor Emmanuel II
128. Duke Metterinich
129. Johann Gottfried
130. Lord Byron
131. Why was the Vietnam war called the first television war?
132. Brought home, stories from soldiers
133. Led to increased sale of television sets
134. Battle scenes were shown on daily news
135. Television was invented

 दीवद्व हा उप्पम्ठ मेभद्ग हे उपमाप्त सा $4 / 5$ वाटा मी उं दीवबग्व हर उप्रम्ठ क्वेतुम मी?
136. $35.5^{\circ} \mathrm{C}$
137. $34^{\circ} \mathrm{C}$
138. $36.5^{\circ} \mathrm{C}$
139. $36^{\circ} \mathrm{C}$
 घलघ्षं से fिॅव मेपक दिँच बेप्ही घक्ष थठम्व को चैट ही मैड्रण्दरा विंती चेदेयो?
140. $10^{-5}$
141. $\left(\frac{9}{10}\right)^{-5}$
142. $\left(\frac{1}{2}\right)^{5}$
143. $\left(\frac{9}{10}\right)^{5}$

## fिडिडग्र

 सांटे मठ-

1. ₹्वगममीद्र टेत्र


2. अॅट द्विमड हेम
3. 1880 दिँच घघघट्री प्रगिठ ही रठान जेनका लटी विचड़ा वगठहीनिभृद्य मी-
4. मलन्निव इड
5. ठाठोधी
6. पलेगा भबभभवी हा छत
7. हंगो

8. मुल्डम्र सा हीस

9. मवमदडी दिसेभभ
10. ขटभागगा
 ४उतहाव ड्रुषमत विग मी-
11. द्वृटठमेभरद्ट II
12. हिहिव भेटबतिष
13. सैचह बौटदिड्ड
14. हान्ठ पर्णश्टितुत
 तोहाने-

15. टेडीलिसठ टी द्विबी द्पण्त्रिए

16. टेलौदिसत ही वा्घ
17. Who said, "printing is the ultimate gift of God and the greatest one?
18. Charles Diekens
19. J.V. Schely
20. Mahatma Gandhi
21. Martin Luther
22. Which of the following combination correctly indicates the three flows of international economic exchange-
23. Capital. goods, raw material
24. Goods, metal, labour
25. Goods, labour, capital
26. Labour, capital, food grains
27. Theslogan'JaiHind'was given by -
28. Lal Bahadur Shastri
29. Subhash Chandra Bose
30. Jawahar Lal Nehru
31. Ras Behari Bose
32. What was the relationship of Guru Amardas Ji with Guru Ramdas Ji?
33. Father
34. Son
35. Brother
36. Father-in-Law
37. Name the treaty signed on 26th December, 1846 after FirstAnglo Sikh War?
38. Treaty of Paris
39. Treaty of Lahore
40. Treaty of Bhayrowal
41. Tripartite Treaty
42. Whoestablished Dal Khalsa?
43. Nawab Kapoor Singh
44. Banda Bahadur
45. Ranjit Singh
46. Guru Gobind Singh Ji

## GEOGRAPHY

122. 'Relief, 'Cyclonic' and 'Convectional' are types of which of the following?
123. Soil
124. Water
125. Rainfall
126. Forests
127. To which of the following, the study of 'Seismology' is related?
128. Atmosphere
129. Floods
130. Tides
131. Earthquakes
132. What is the area of Chandigarh?
133. 114 sq kilometre
134. 1014 sq kilometre
135. 10140 sq kilometre
136. 50362 sq kilometre
137. हिग मघट विम हे वणे - 'ढपाप्थी प्मांडमr ही मब उ' दँ हो ठे भगण्तटा्डवै'-
138. उठलम बिवमर
139. ति. दी. मवेल्रज
140. मणग्डभां वांपी
141. भग्ठटर फ्रषष


142. प्रिती, भाष ववँचा hएल
143. माल, पन्ड, मसचुव
144. माल, भलड्चठ, प्रिती
145. भस्नट, पूनी, धा्च मूँठाठी
146. 'ने गिस' स हालवर विम हे सिँड
147. हाह प्वयम्टत भ्रम्रडती
148. B ' H बँचन धूम
149. लडागय म्लाह हठगि
150. उग्र प्षिवग्नी घ्रेम

151. पिडा हा
152. बता स
153. प्रॅउत हा
154. मंखते हा
 विलज्री मैपी गैप्थी?
155. पिविम ही मिणो
156. हगउँच ही मियी
157. बेवैनम्ड हौ मंपो

158. टल धालमा टौ मषण
159. हहाघ वपृत मिँय
160. घंहा पग्रव
161. ठटतीव ffrul
162. तुवु वाधिंट मिंय नी

## ड़ुगल



1. निँटी
2. जगो
3. दठष
4. लंताल

5. द्युसेड
6. गड
7. नहग्वग्ना
8. बत्वएल
9. चंडीवान्न प्र धेडतहल विंकु चे?
10. 114 हृताविलेभीटत
11. 1014 इउता विसेभीटव
12. 10140 द्तरा विलึभौटव
13. 50362 छतना विसुभीटव
14. Which latitude passes approximately through the middle of India?
15. Equator
16. Tropic of Cancer
17. Tropic of Capricom
18. Prime Meridian
19. With which agent the features like 'Stalactite' and 'Stalagnite' are related?
20. Air
21. Sea
22. Underground water
23. Glacier (River of Icc)
24. In which statc of India the 'Kandla Port' is situated?
25. Punjab
26. West Bengal
27. Andhra Pradesh
28. Gujarat
29. Which of the following states has the least 'populution density"?
30. Bihar
31. Uttar Pradesh
32. Himachal Pradesh
33. Arunachal Pradesh
34. Which state of India has the maximum area under forests?
35. Haryana
36. Tripura
37. Rajasthan
38. Kurnataka
39. From which language the word 'Monsoon' has been derived?
40. Hindi
41. Arabic
42. German
43. English
44. For what mineral, the mining region of 'Kolar' and 'Ramgiri' in Indian are famous for?
45. Gold
46. Silver
47. Copper
48. Bauxite
49. Which state of India is connected to China (Tibe! Region) through Nathula pass?
50. Meghalaya
51. Assam
52. Sikkim
53. Arunachal Pradesh

## CIVICS

133. Who was the Chairman of Drafting Committee of Indian Constitution:
134. Moti Lal Nehru
135. Jawahar Lal Nehru
136. B.R.Ambedkar
137. Rajender Prasad
138. Which of the following is a big challenge to democracy?
139. Leaders
140. Political Parties
141. Elections
142. Illiterate Citizens
143. विजन्नी भवमंभ उेषा बागड से लवाबता भॅप दिसे ताक्तली ज?
144. छुपषँचता
145. वतव केषा
146. भवब गेध
147. मुध $भ$ पिभर वेषा
148. 'मटैखबटाटीट' भडे 'मटैलताभप्टीट' बउतो ठुण्व विम व्नब ठाम्ल भष्ष ठँचसे गठ?
149. गदा
150. मग्वाठ
151. उ-तल
152. वासेसीभव (fिभ हटी)
153. 'व'इल घंटवगाग' बुग्ड हे विम वान सिॅडजी?
154. पंत्नग्ध
155. पॅहमी घंगाग्ल
156. आतापवा पूटेम
157. गात्तबत्ड
 घटने?
158. घिग्न
159. हैंउत प्टेश
160. गिभा्चक्त प्रेप
161. आछत्छल यृटेस

162. वतिम्टा
163. उियु
164. ग्समप्र
165. वबहग्टव

166. जिसी
167. अबपी
168. सउभत
169. अंवाठेसी
170. मन्डे टेत्त से 'इँहण' भडे 'उभविती' षेउत विगझा षहित पहागस वँसट कही यूमिंप गठ ?
171. मेता
172. चाटी
173. उंपा
174. प्रग्वमाप्टीट
 ताल जैइटा ?
175. मेयाकिभा
176. ममगH
177. मिविभ
178. अतुरा्बल पूटेप

## हग्ताविव म्मुतन

133. वग्तडी मिब्दिपाठ टी मांटा कमेटी हे प्पए्त बंट मठ ?
134. भैठी सए कणचत
135. सद्यन माल तावित
136. घी भग्त मैलेच्इवत
137. तनिस्त पूमा्ट

138. हंडा
139. वान्तीडिब चल
140. चंट
141. भहपन्न देटव
142. Which of the following is not the quality of ideal citizens:-
143. Good health
144. Patriotism
145. Tolerance
146. 1lliteracy
147. Seats are reserved for women in :-
148. Parliament
149. Panchayati Raj Institutions
150. State Legislature
151. Rajya Sabha
152. Which type of government is a federal governments:
153. Centre and State Government
154. Govt. of two States
155. Centre and two State Government
156. Centre and three State Government
157. How many state governments are functioning in Indin:-
158. 7
159. 28
160. 13
161. 29
162. An ordinary bill is represented in:-
163. Rajya Sabha
164. Lok Sabha
165. Any house of Parliament
166. Rajya Vidhan Sabha
167. Who is the constitutional head of India?
168. King
169. Queen
170. Prime Minister
171. President,
172. Which of the following is not the National Flag:-
173. Shiromany Akali Dal
174. Bhartiya Janta Party
175. Indian National Congress
176. Bahujan Samaj Party
177. India is a federal state because :-
178. Dual judiciary
179. Written constitution
180. Dual citizenship
181. Share of power between centre and state

## ECONOMICS

143. GDP can be written as $\qquad$
144. General Domestic Product
145. Gross Domestic Product
 ज?
146. संती मिणड
147. लेम बताड
148. मगिट्मीहउा
149. भहपत्नडा
150. मॅँडां लटी गेठ सिधिभ्म दिँचं विभ दिस वाधदीम मीटा उळ?
151. मिमट
152. जैछाद्धिडी वा+ भलाते
153. गस द्विप्ठ मड़
154. गत्र मड़ा

155. वेंसब डे ग्न मववगत
156. चै गत्ता ही मतन्व
157. बंटड हे से गत्स मवबां
158. बेंटब हे निंक बात मठवण्तां

159. 7
160. 28
161. 13
162. 29
163. मयातट घिस येष वीक्रा त्तो ने :
164. वात्त मすा
165. लव मडा
166. मैमट से विमे द्री मलत दिँु
167. वग्त स्पिएक मड़ा
168. कात्ड सम मैद्यिग्ठव मुधी वंट जै?
169. तान्ता
170. उप्टी
171. प्यम्तमंडटी
172. तम्मटबपत्री
 बै?
173. मूमटी $भ व \mathrm{~B}$ रल
174. वुगडी सहडा युगटी
175. टिझीमగ हैपतल वंगावम
176. घण्नक मलण्स पण्वटी
177. उ्तड हिॅव मीय तात्त वै विषिंदि?
178. रंगठी हिभंपगिवन
179. किषजी मंद्विपए्र
180. संगी ठग्याविन
181. वैंटव हे उग्स टिँ甘 मवडोमां टी हैइ

## भवस स्रामडत

143. GDP 츙 दिमयग्त ताल $\qquad$ किध्टे वह।
144. सहबल सवेम्ह बिजाए
145. वृह अठेस्ट विउथा्ट
146. Gross Development Product
147. General Development Product
148. Foreign Trade
149. Increases choice of goods
150. Decreases price of goods
151. Increases competition in the market
152. Decreases carnings.
153. COPRA full form is
154. Co-ordination Protection Act
155. Co-education Protection Act
156. Co-operative Protection Act
157. Consumer Protection Act
158. Which of these notes are issued by finance department of Govt. of India.
159. ₹ 500
160. ₹ 100
161. ₹ 2000
162. ₹।
163. What is the impactof Green Revolution.
164. Forestarea increased
165. Air Pollution decreased
166. Wheat Production Increased
167. Milk Production Increased
168. Globalisation was stimulated by:-
169. Money
170. Transportation
171. Population
172. Computers
173. A consumer $\qquad$
174. Sells goods and services.
175. Buy goods and services.
176. Produces goods and services.
177. Delivers goods and services.
178. What is the time-period of 12 th five year plan?
179. 2002-07
180. $2007-12$
181. $2012-17$
182. 2017-22
183. बूल द्विवम्म शिउयम्ट
184. तहतल डिवाम बिउपग्त
185. दिहोमी द्याव $\qquad$
186. दमडृभम ही चँट के दपणिंसा बै।

187. घत्ता दिँच भुवाप्बक्षे के हपणिंता गे।
188. वमाली के युलिंटा गै।
189. COPRA है दिमवग तरल सिषे।
190. उएकमेक्ल मिठधट वर्क्रंत
191. माग-fिौұिभा मैठषट वर्ट्रंत
192. मागिबग्डा मैठषट वर्क्रंठ
193. ब्रिजैगाडा मैठधट वर्टुत
 नगी वीठा सन्टर्ये ?
194. ₹ 500
195. ₹ 100
196. ₹ 2000
197. ₹ 1

198. इट षेंचग हँप विभा।
199. उस् पृЕ्चघट सँट विभग।
200. बहव हा धिउपग्टह टॅप विभभ।
201. हुप हर छ्रिज्यत सँट विभा।
 विए $\mu^{\top}$ मौ?
202. पृеवा
203. भाद्नग्ती
204. नरमिषिया
205. वैfिजिटठ
 $\qquad$
206. दमनुभा Mडे मेदाटां देचटर्वे।
207. हमनुभा भठे मेद्यद्ट पतीरटा जै।

208. दमझुभां भडे मेद्दां हौ फटर्गिती बरहा गे।

209. 2002.07
210. $2007-12$
211. 2012-17
212. 2017-22

## ENGLISH

Q. (151-153.) Read the following passage carefully and answer the questions that follow:

Some people think you need a kitchen to cook dinner. But you can make easy, delicious meals outside over a campfire.

One easy campfire meal is a baked potato. You wrap the potato in tin foil and put it under the flames in the hot ashes. After an hour, the heat from the fire will cook the potato. Open up the tin foil package and you have a baked potato!

It is also easy to roast food over a campfire. You can put hot dogs or sausages on sticks and bold them in the fire. The flames will cook the meat. For dessert, you can roast marshmallows on sticks. Hold them near the fire until they turn golden and begin to melt. But do not leave anything in the fire too long, or it will turn completely black and taste like ashes.

There are many nice things about camptire meals. To make these meals, you do not even need to know anything about cooking. Some people also say that food tastes better when cooked and eaten outside. But the best part of these campfire meals is there are no dishes to wash afterwards.
151. As used in paragraph 2, which is an example of a package?

1. French fries are served on atray in the cafeteria
2. Anew toy comes wrapped up in a plastic box
3. Cookies are easy to remove when there is tin foil on the cookie sheet
4. You can use a knife to cut open an orange instead of pecling it
5. The author wams that if you leave anything in the fire toolong, it
6. can get burned
7. can be dangerous
8. will melt
9. will fall off the stick
10. Which sentence from the passage best deseribes why campfire meals are easy to make?
11. "But you can make easy, delicious meals outside over a campfire."
12. "You wrap the potato in tin foil and put it under the flames in the hot ashics."
13. "It is also easy to roast food over a campfire."
14. "To make these meals, you do not even need to. know anything about cooking."
15. After reading the passage, we can conclude that
16. you do not need much to cook a campfire meal
17. cooking over a campfire is more fun than in a kitchen
18. roasting food on a stick or wrapping it in tin foil is the only way to cook a campfire meal
19. If you do not cook in a kitchen, you do not have any dishes to wash
20. According to the author, the best part of these campfiremenls is that they
21. arceasy
22. are delicious
23. taste better outside
24. use no dishes
Q. (156-160.) Read the comprehension passage carefully and answer the following questions :-

What needs to be set right is our approach to work. It is a common sight in our country of employees reporting for duty ontime and at the same time doing little work. If an assessment is made of time they spent in gossiping, drinking tea, eating "pan" and smoking cigarcties, it will be shocking to know that the time devoted to actual work is negligible. The problem is the standard which the leadership in administration sets for the staff. The ministers mix politics and administration. What do top bureaucrats do? What do the below down officials do? The administration set up remains week nainly because the employees do not have the right example to follow and they are more concerned about being in the good books of the bosses that doing work.
156. The employees in our country

1. are quite punctual but not duty conscious
2. Are not punctual but somehow manage to complete theit work.
3. Are somewhat lazy but good natured
4. Are not highly qualified
5. According to the writer, the administration in India
6. Is by and large effective
7. Is striet and firm
8. Is effected by red tape
9. Is more or less ineffective
10. The word assessment means:
11. Enquiry
12. Report
13. Evaluation
14. Summary
15. The leadership in an administration
16. Sets a fine example to the employees
17. Is of a reasonably high standard
18. Is composed of idealists
19. Is of a very poor standard
20. The central idea of the passage could be best expressed by the following:
21. The employer's outlook towards work is justified
22. The employee must change their outlook towards work
23. The employees would never change their work culture
24. The employer employee relation is far from healthy
Q. (161-164.) The 1st and the last parts of the sentence are numbered 1 and 6 . The rest of the sentence is split into four parts and named P, Q, R \& S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct.
25. 26. :A dictionary
P. :arranged words
Q. :about which information
R. :containing alphabetically
S. : is a book
1. : is given
2. RPQS
3. QRPS
4. SRPQ
5. SPRQ
6. 7. : The pigeons were used
P. :as messengers
Q. : which were tied
R. : in the olden days
S. : to carry messages
1. : to their feet
I. PQRS
2. SPRQ
3. PRSQ
4. PRQS
5. I. :Socrates
P. : never to make
Q. : a great Greek Philosopher
R. : and had resolved
S. : tried hard to central himself
6. : a show of his temper
7. SRPQ
8. QSRP
9. QSPR
10. PQRS
11. 12. :The important thing
P. : winning
Q. : is not
R. : but
S. : taking part
1. : in the Olympic games
2. PQRS
3. QPRS
4. SRPQ
5. QSPR
Q. (165-168.) The following questions has the second sentence is missing. Choose the appropriate sentence from the given options to complete it.
6. A. A gentleman who lived alone always had two plates placed on the table at dinner time.
B.
C. he used to give the cat a piece of meat from his own plate.
7. One plate was for himself and other was for his cat.
8. She drooped a mouse into her own plate and another into her master plate.
9. In this way the cat showed her gratitude to her master.
10. The cat was nice to the master.
11. A. Satyajit Ray made many films for children.
B.
C. Ray, was a pioneer in this field.
12. Later, film makers have followed his lead.
13. Today, other nations are making children's films in abigway.
14. This was at a time when no director considered children as potential audience.
15. But today few think of Ray as a maker of children's films.
16. A. Villages are usually thought as the places of peace and solitude.
B.
C. Life in a village is not as fast as in the city.
17. There are fewer distractions for the villagers.
18. A common bond of brotherhood exists in the villagers of one another.
19. Just like life in a city, a village has its own attractions and revulsions.
20. $\qquad$ villagers are a home away from the busy life in cities.
21. A. Acomputer is an electric device.
B. $\qquad$
C. The computer helps us create programmes, communicate and help us to earn.
22. Information is stored and managed by computers.
23. We have rcally arrived into an era of global world.
24. The internet is complicated web of satellites.
25. That helps in boosting our efficiency.
Q. (169-170.) Choose the word which best fills the blank from the four options given :-
26. The President of India culied upon the peopie to
$\qquad$ . $\qquad$ their religious differences and strengthen secularism in the country.
27. abolish
28. exhort
29. $\sin k$
30. condemn
31. My father $\qquad$ of severe pain in his chest.
32. questioned
33. complained
34. afraid
35. expressed
Q. (171-173.) In the questions below, out of four alternatives, choose the one which can be substituted for the given words:
36. Government by a king or queen.
37. Theocracy
38. Monarchy
39. Democracy
40. Republic
41. Child of unusual or remarkable talent.
42. Talented
43. Distinguished
44. Reputed
45. Prodigy

## 173. Scarcity of rain or water

1. Drought
2. Draught
3. Tide
4. Barren

## Q. (174-181.) Select this meaning of the given phrases/ idioms.

174. She was remarkably $\qquad$ is singing and dancing.
175. Conducive
176. Reluctant
177. Arrogant
178. Accomplished
179. A technology starved customer would only be
$\qquad$ to be presented with a new project.
180. Thriving
181. Imitable
182. Declarative
183. Thrilled
184. The song in the play cannot be deleted as it is
$\qquad$ to the story.
185. Intervened
186. Innate
187. Integral
188. Exact
189. She remaineda $\qquad$ all ber life.
190. Spinster
191. Bachelor
192. Unmarried
193. Singlo
194. Do not stay in grasslands after dark as some animals become $\qquad$ when they see humans.
195. Provoked
196. Aggressive
197. Alerted
198. Juvenile
199. Outand out
200. Complaining
201. out of game
202. thoroughly
203. decline
204. Odds and ends
205. needless
206. watchful
207. strayarticles
208. declining
209. Fire andsword:-
210. energy
211. shining
212. destruction
213. brave
Q. (182-185.) Change the voice :-
214. Whobeatyou?
215. By whom were you beaten?
216. Whom were you beaten?
217. Why were you beaten?
218. Whom do you beaten?
219. This news alarmed me.
220. Ihave been alarmed at this news,
221. I was alarmed at this news.
222. I was alarmed by him.
223. I had beenalarmed at this news.
224. Sitdown.
225. you were ordered to sit down.
226. you had ordered to sitdown.
227. you are ordered to sit down.
228. you have been ordered to sit down.
229. May I see you pen?
230. May you pen will be seen by me?
231. May pen be seen by me?
232. May your pen be seen by me?
233. May I see my pen through you?
Q. (186-188.) Change the narration of the following :186. "Call the police," said someone.
234. Some one suggested that police must be called.
'2. Some one suggested that police will be called by mc .
235. Some one told that the police will be called.
236. Some one suggested that the police should be callod.
237. She said to Tom, "open your mouth,"
238. She warned Tom to open mouth.
239. She ordered Tom to open his mouth.
240. She asked Tom to open mouth.
241. She told Tom to open mouth.
242. He said tome, "Where do you live?"
243. He told tome where I should live.
244. He told tome wherellive.
245. He asked to where I was lived.
246. He asked me where l lived.
Q. (189-196.) In the following passage, there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blank from the given options :-

Animals have played a major role in human's lives throughout history. Today, scientific research is trying to (189) $\qquad$ the positive aspects of living with companion animals. Animals have been used as an (190) $\qquad$ form of treatment for many years. More recently it has been discovered that owning a pet can help lower people's blood pressure. (191) $\qquad$ the chances of living after a heart attack, keep people more active and provide more (192) $\qquad$ with life. It is (193) $\qquad$ that this happens because pets help people become more (194), provide a means to give and receive (195) (196) $\qquad$ world.
189. 1. evolve
3. provide
190. 1. alternative
3. mandatory
191. 1. Elaborate
3. enhance
192. 1. Satisfaction
3. discomfort
193. 1. Practiced
3. accepted
194. 1. Boring
3. social
2. discover
4. impart
2. secondary
4. obligatory
2. elucidate
4. eradicate
2. lethargy
4. energy
2. supposed
4. theorized
2. Workaholic
4. recluse
195. I. Affection
2. hatred
3. isolation
4. precision
196. I. Artificial
2. Amiable
3. Natural
4. Political
Q. (197-200.) Select the word which means the opposite of the underlined word :-
197. On these tablets, they have inscribed writing which they wished to preserve.

1. Ruin
2. conceal
3. hide
4. protect
5. The earliest books were not books in the modem sense of the word.
6. new
7. ancient
8. current
9. latest
10. The soldier was reprimanded for ruining his immaculates uniform.
11. Shining
12. Dirty
13. Useless
14. Worthy
15. We should have cordial relations with our neighbour.
16. Smooth
17. Friendly
18. Sophisticated
19. Reserved

[^0]:    E is to the Left of D
    $C$ is between $A$ and $B$
    $F$ is between $A$ and $E$

