

# AJMAL NATIONAL TALENT SEARCH (ANTS) EXAMINATION - 2010

Conducted by : **AJMAL FOUNDATION, A Registered Public Charitable Trust**

**Hojai, Nagaon (Assam)**

**ANTSE/VIII/2000**

**Class / æ ØÝ f VIII**

.....  
Invigilator

**Sl. No.**

Date.....

**Centre Code / æØØØ» Eø Qø / äa³OøÝ äEçQø**.....

**Roll No. / ä»ç X=ö / äÝç XØÝ**.....

### INSTRUCTIONS TO CANDIDATE

1. Write your **Centre Code and Roll No.** legibly in the space provided. Do not write your name any where in the book.
2. An examinee must not bring any loose paper, book, etc. except the Admit Card to the Examination Hall. Any examinee found in possession of even loose papers will be **EXPELLED**.
3. No extra sheet will be provided for making notes or calculations. **Candidates may use the inner cover pages of this booklet for this purpose.**
4. An examinee must not talk to, disturb or seek assistance from a fellow examinee during the examination.
5. No. leaf of the booklet must be torn or detached.
6. Any mechanical or digital calculating device (calculator etc.) shall not be used by the examinee during the examination.
7. Mobile Phones shall not be used by candidates inside the examination Hall.
8. No candidate will be allowed to leave or go out of the Examination Hall during the first hour of the examination.
9. **i. Questions are of multiple-choice type carrying one mark each and all questions are compulsory.**  
**ii. Students are required to write the correct answer [i.e. any one of (a), (b), (c) or (d)] in the box provided alongside the question.**  
**iii. A candidate having completed his/her question-answer booklet must hand it over, even if blank, to the invigilator before leaving the Examination Hall.**
10. Contravention of any of the instruction mentioned above shall render a candidate liable for disciplinary action as per rule.

**Y»ÝI icUVØ [ýäÝXävÜ ç¼ Ý**

- 1\* Y»ÝI icUVØ CY»» Fç Pçøø äTçä çEø æØØØ» Eø Qø ä»ç X=ö Y»» ä»Eø x F [Ý Eø äTç XL» Xç] Xç F [Ý
- 2\* Y»ÝI ic c= To A00] æEçQø» [ýcä» YØUVØ äEçäXç W»S» EçGL, EøTçY %çV %çX [ýäXç¼» [Ý %çXä Y»ÝI ic c= » Y»ç [ýc»ä» Eøç c= [Ý
- 3\* ççç [ý äEç %çV x F [ý %Tø»Nb EçGL »/ç Xc= [Ý Acø [ýFX» ä [ØYçTø » äTø» Y»» [ýç» Eøç Eø» [ý Yç» [Ý
- 4\* Y»ÝI ic ç= UEç a] Tø Eçäç GTo Edç [ýTøç YçTø [ý ac= Y»ÝI icUVØ Y»ç ac» X [ý» EçäEç » [ýNb Eøç Xç= [Ý
- 5\* Qø» [ýç» YçTø Zç» [ýäXç¼» [Ý
- 6\* Y»ÝI icUVØ äEø Eç» %çV äEçäXç W»S» ^çUEø aLç [ýç» Eø» [ýäXç¼» [Ý
- 7\* Y»ÝI ic c= » äTø»Tø Y»ÝI icUVØ [ýç» äZçX [ýç» Eøç XäbW
- 8\* Y»ÝI ic %çPø äçç» Y»ç YØ] H» ä b äXçäçç äEø äEçäXç Y»ÝI icUVØ [ýç» C ç [ýäXç¼» [Ý
- 9\* Eø YØ ä] E=1 X=ö [ý rø [ý Eø [ýX Y üTø\* äEç ç YØ ä Qø» Eøç [ýTç] E Eø  
F) YØ ä] YØ ä Qø» »/ç %çäç Y»ÝI icUVØ E ü Qø» äEçTø UEç [ýEøTø (a), (b), (c) [ý (d) x F [Ý
- G) Y»ÝI icUVØ Y»ÝI ic ä bTø C ççä çç» %çGäTø YØ ä»» [ýç %çV Qøç c=ä C Xç» I Eø çEçTø L] ç » ^ç [ý çG [Ý
- 10\* Qø» ä»Nb XävÜ ç¼ Y» » äEçäXç A00 %] çXi Eø» ä » [ý] äTø %Xç çäX] E Eø [ýQø ä ç¼ c= [Ý

### MARKS OBTAINED

General Knowledge	General English	General Mathematics	General Science	Total

\_\_\_\_\_  
Signature of Examiner

\_\_\_\_\_  
Signature of Scrutiniser

\_\_\_\_\_  
Signature of the Head Examiner

# AJMAL NATIONAL TALENT SEARCH (ANTS) EXAMINATION - 2010

Class : VIII

Time/அளவு : 2 hours/ 2 மணி

Full Marks/ மொத்த மதிப்பு (25+25+25+25)=100

**INSTRUCTIONS / கவனிக்கவும் / கவனிக்கவும்**

1. Attempt All Questions / **எல்லா கேள்விகளையும் பதிலிடுக**
2. There are four options to every question. Choose the correct option by putting any one of **a, b, c** or **d**, in the box  
 யாது ஒரு கேள்விக்கும் நான்கு விருப்பங்கள் உள்ளன. சரியான விருப்பத்தை **a, b, c** அல்லது **d** ஆகியவற்றில் ஒன்றை கீழ்க்கண்ட பெட்டியில் குறிப்பிட்டு பதிலிடுக.

## General Knowledge / பொது அறிவு / பொது அறிவு

1. Custom duty is levied on .....  
 அளவுகட்டுப்பாட்டுக் கட்டணம் எங்கே விதிக்கப்படுகிறது?  
 அளவுகட்டுப்பாட்டுக் கட்டணம் எங்கே விதிக்கப்படுகிறது?
 

a) Export ஏற்றுமதி ஏற்றுமதி	b) Import மேற்றுமதி மேற்றுமதி	c) Production உற்பத்தி உற்பத்தி	d) Sale விற்பனை விற்பனை	<input type="checkbox"/>
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2. .... is also known as plastic money.  
 ..... என்ற பெயராலும் பிளாஸ்டிக் பணம் அழைக்கப்படுகிறது.  
 ..... என்ற பெயராலும் பிளாஸ்டிக் பணம் அழைக்கப்படுகிறது.
 

a) Cheque சேக் சேக்	b) Draft டிராப்ட் டிராப்ட்	c) Credit Card கிரெடிட் கார்ட் கிரெடிட் கார்ட்	d) Money Order மனிஷ் ஆர்டர் மனிஷ் ஆர்டர்	<input type="checkbox"/>
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3. The programme "SAVE OUR TIGERS" is initiated by :  
 "சேவ் ஒர் திஜர்ஸ்" என்ற திட்டம் எங்கே தொடங்கப்பட்டது?  
 "சேவ் ஒர் திஜர்ஸ்" என்ற திட்டம் எங்கே தொடங்கப்பட்டது?
 

a) Airtel அயர் டீலு அயர் டீலு	b) AIRCEL அயர் சீல் அயர் சீல்	c) BSNL பி.எஸ்.என்.எல். பி.எஸ்.என்.எல்.	d) Vodafone வொடாபோன் வொடாபோன்	<input type="checkbox"/>
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4. 'Tatkal scheme' is available in which of the following :  
 'டாக் கால் திட்டம்' கீழ்க்கண்டவற்றில் எங்கே கிடைக்கிறது?  
 'டாக் கால் திட்டம்' கீழ்க்கண்டவற்றில் எங்கே கிடைக்கிறது?
 

a) Postal Service புத்தக அஞ்சல் சேவை புத்தக அஞ்சல் சேவை	b) Indian Railway இந்திய ரயில்வே இந்திய ரயில்வே	c) Telephone Service தொலைபேசி சேவை தொலைபேசி சேவை	d) Share Market சேர் மார்கெட் சேர் மார்கெட்	<input type="checkbox"/>
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5. Tea in India was first discovered in :  
 இந்தியாவில் தேயிலைத் தாவரம் முதலில் எங்கே கண்டுபிடிக்கப்பட்டது?  
 இந்தியாவில் தேயிலைத் தாவரம் முதலில் எங்கே கண்டுபிடிக்கப்பட்டது?
 

a) Assam அசாம் அசாம்	b) Sikkim சிக்கிம் சிக்கிம்	c) West Bengal வெஸ்ட் பீங்கால் வெஸ்ட் பீங்கால்	d) Tamilnadu தமிழ்நாடு தமிழ்நாடு	<input type="checkbox"/>
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6. Which of the following is not a Public Sector Bank :

Тө » аЕцХаа »сртіЕбтöа[еЕöХс? ?  
Xлaд[яаЕцХ-ö[сртіЕбтöа[еЕöХл? ?

- a) Allahabad Bank                      b) Axis Bank                      c) Dena Bank                      d) Vijaya Bank
- A\_ççe[çV ä[еЕö                      A\_xj \$öä[еЕö                      äVXç ä[еЕö                      x[ç]L'ç ä[еЕö
- A\_ççe[çV ä[еЕö                      A\_xj a ä[еЕö                      äVXç ä[еЕö                      x[ç]L'ç ä[еЕö

7. Priynka Chopra was given the Best Actress Award in the 56<sup>th</sup> National film awards for her role in :

×YDeEç: açYçEö äEçXFx \$×[çö%×äX' » [çä[ç56 Tö] »срті^ zö ½[çç] YVçX Eöç ec×\$÷ ?  
56 Tö] [срті^ Yç-ç[ç] a] ç[ç]ç:×YDeEç: açYçEö äEçXFx Kç'ç×[ç]LXi æ öö%×äXy[ç]Yç-ç[ç]çVç'ççç ?

- a) Kaminey                                      b) Dostana                                      c) Fashion                                      d) Pyar Impossible
- Eöç]äX                                      äVççEçXç                                      äZö X                                      Yicç çç+ \$ç[ç]
- Eöç]äX                                      äVççEçXç                                      äZö X                                      Yicç[ç]+[ç]çä[ç]

8. "We serve you better because we understand you better" - is the ad line of the television channel :

"%ç×] %çäYçXçä\_çEçö\ç\_éEö äa³ç Eö»ç Eç»S %ç×] %çäYçXçä\_çEçö\ç\_éEö LçäXç' äEçX çKäX\_ » ?  
"%ç×] %çYXçäV[ç]\ç\_ \çä[ç]äa[ç] Eö[ç]Eç]S %ç×] %çYXçäV[ç]\ç\_ \çä[ç] LçX" — äEçX JöçäXä\_[ç] ?

- a) Doordarshan                              b) NDTV 24x7                              c) National Geographic Channel                      d) Zee TV
- VöV` X                                      AX×çççç\ö24x7                              äX` VäX\_ xL%ççZçEö çKäX\_                      xL çççç\ö
- V[ç]V` X                                      AX×çççç\ö24x7                              Xiç` äX\_ xLçççZçEö JöçäX\_                      xL çççç\ö

9. 'PAN' number is related with :

PAN Xe çEç» \_GTöL×öbтö?  
PAN Xç[ç]ç+çEçä[ç]ççL\_×öbтö?

- a) Mobile phone                              b) Income Tax                              c) Railway Reservation                      d) telephone Code
- ä]ç[ç]ç\_ äZçX                              %ç' Eö                              ä»\_Cä¼%çäX ae»I iS                      äçç\_ äZçX äEççö
- ä]ç[ç]ç+ \_ äZçX                              %ç' Eç[ç]                              ä[ç]\_ Cä[ç] %çä] ae[ç] iS                      äöç\_ äZçX äEççö

10. Economic planning in India is mainly fixed for :

\ç»Töç%UeXçTçEö Y»Eç' Xç çEö]çX [çK»» [çä[çEöççççç ?  
EöTö [çKä[ç]ç LXi \ç[ç]çä[ç]ç%UeXçTçEö YçEç' Xç Eç[ç]ççççç ?

- a) 10yrs                                      b) 7 yrs                                      c) 5 yrs                                      d) 3 yrs

11. The city-state in ancient world :

YççäX ç[ç] ç XG» »çLi %ççç÷ :  
YççäX ç[ç] çXä[ç]çäEççççXG[ç]çLi ççç÷ :

- a) Egypt                                      b) Burma                                      c) Athens                                      d) Sumeria
- ççL S                                      [ç]ç                                      AäU³a                                      çç]»çç
- +xL öö                                      [ç]ç                                      AäU³a                                      äç]çççç

12. The state in India has the smallest population :

Which state in India has the smallest population?

- a) Sikkim
- b) Goa
- c) Meghalaya
- d) Mizoram

13. Find out the correct order of the following civilian Awards ?

Find the correct order of the following civilian awards:

- a) Padmashree, Padmabhushan, Padmabibhushan, Bharat Ratna
- b) Padmabhushan, Padmashree, Bharat Ratna, Padmabibhushan
- c) Padmabhushan, Padmabibhushan, Padmashree, Bharat Ratna
- d) None the the them

14. Late Ustad Bismillah Khan was famous for :

Ustad Bismillah Khan was famous for playing which instrument?

- a) Sitar
- b) Flute
- c) Sarod
- d) Shehnai

15. Population census in India is conducted every after :

How often is the population census conducted in India?

- a) 5 Yrs
- b) 7 Yrs
- c) 10 Yrs
- d) 15 Yrs

16. The total numbers of seat in Rajya Sabha from Assam :

How many seats are there in the Rajya Sabha from Assam?

- a) 2
- b) 7
- c) 12
- d) 14

17. Dilip Tirkey of India is associated with :

$\times$  Y  $\times$  T E d U E c  $\rightarrow$  \_ G T o L Q b T o ?  
 $\times$  Y  $\times$  T E d U E c X a F \_ d j a c a U L Q b T o

- |                                       |  |                                 |   |                          |
|---------------------------------------|--|---------------------------------|---|--------------------------|
| a) Football<br>Z Q d j y<br>Z Q d j y | b) Cricket<br>$\times$ y (b) E d R O<br>$\times$ y (b) E d R O | c) Hockey<br>C * E o<br>C * E o | d) Kabadi<br>E c [ c V Y<br>E d j y Q o | <input type="checkbox"/> |
|---------------------------------------|--|---------------------------------|---|--------------------------|

18. If A is B's daughter, and B is C's mother, D is C's brother, how is D related to A ?

$\wedge$   $\times$  A - B  $\rightarrow$  L V a r E o % c  $\rightarrow$  O B - C  $\rightarrow$  ] c E o % c  $\rightarrow$  O D - C  $\rightarrow$  \ q c t a T a U B D % c  $\rightarrow$  O A a + E o  $\times$  E o ?  
 $\wedge$   $\times$  A c f B A [ j a ] a r , B c f C A [ j ] c , D c f C A [ j ] \ q + , T a c a \_ D , A A [ j ]  $\times$  E o c a [ j ] ?

- |   |   |                              |   |                          |
|---|---|------------------------------|---|--------------------------|
| a) Father<br>$\times$ T c<br>$\times$ T c | b) Grand Father<br>E d c - a V = T c<br>P a c E d j V c V c | c) Brother<br>\ q +<br>\ q + | d) Brother & Sister<br>\ q + - \ d X<br>a [ j ] X | <input type="checkbox"/> |
|---|---|------------------------------|---|--------------------------|

19. What is the minimum qualification and age to appear in the IAS examination ?

X K i T o ]  $\times$  E o ] c X  $\times$  I u G T o % c t c % c  $\rightarrow$  O [ j a T o I A S Y  $\times$  V I u c T o % a T o X i c : [ j ] Y c  $\rightarrow$  ?  
 I A S Y [ V I u c T o ] L X i X K i T o ]  $\times$  I u G T o a ^ c G i T c A [ j e ] [ j a c :

- |   |   |                          |
|---|---|--------------------------|
| a) Post Degree and 25 years<br>O c T a E c w o % c $\rightarrow$ O 25 [ K $\rightarrow$<br>O c T a E c w o j A [ j e ] 25 [ K T j | b) Degree and 21 years<br>O c T E o % c $\rightarrow$ O 21 [ K $\rightarrow$<br>O c T E o A [ j e ] 21 [ K T j                    | <input type="checkbox"/> |
| c) Degree and 22 years<br>O c T E o % c $\rightarrow$ O 22 [ K $\rightarrow$<br>O c T E o A [ j e ] 22 [ K T j                    | d) Post Degree and 21 years<br>O c T a E c w o % c $\rightarrow$ O 21 [ K $\rightarrow$<br>O c T a E c w o j A [ j e ] 21 [ K T j |                          |

20. If the 2012 Olympic Games are held in London, in 2016 it will be in :

2012 \$ a X T o % x \_ x + E o a G ] \$ o \_ % a T o % X c a T o c : [ j 2016 \$ a X T o E o T o c : [ j ?  
 2012 a a X j y % x  $\times$  Y E o  $\wedge$  V \_ % X c f , T a j 2016 a T o a E c U d r c a [ j ?

- |   |   |  |   |                          |
|---|---|--|---|--------------------------|
| a) Barcelona<br>\$ j a d _ c X c<br>[ j a a _ c X c | b) Rio de Janeiro<br>$\times$ % $\times$ O o a L a X $\times$ C<br>$\times$ j C $\times$ O o a L a X $\times$ j C | c) Mexico City<br>a ] $\times$ j a E c $\times$ K * R O<br>a ] $\times$ j a E c $\times$ a O | d) Los Angeles<br>_ L A a t _ \$ b<br>_ a A a L _ a | <input type="checkbox"/> |
|---|---|--|---|--------------------------|

21. By Great Circle, we mean :

[ E d [ j w o [ j \_ a \_ % c ]  $\times$  E o [ j L c ?  
 m j y j w o [ j \_ a \_ % c ] [ j c  $\times$  E o [ j w o ?

- |  |   |   |  |                          |
|--|---|---|--|--------------------------|
| a) Prime Meridian<br>] F i V B H ] c a $\times$ F c<br>] F i V B H ] c a j F c | b) Equator<br>$\times$ [ j o % a $\times$ F c<br>$\times$ [ j o j a j F c | c) Tropic of Cancer<br>E d E o y o j U m<br>E d E o y o j U m | d) Tropic of Capricorn<br>] E o y o j U m<br>] E d j y o j U m | <input type="checkbox"/> |
|--|---|---|--|--------------------------|

22. 'Bluetooth' technology allows :

[B] Y00Nbar ..... aP04E00\*  
[B] Y00Np Yd]c abd]ycf :

- |   |  |                          |
|---|--|--------------------------|
| a) Wireless communication between equipments<br>a»tç]» ]çLT0%XgTç» aeâ^çG<br>a]ytç] ]y ]a]N Tç]yç X aeâ^çG                  | b) Signal transmission on mobile phone only<br>â]ç]çç_ âZçX» aeâE0T0æY0S<br>â]ç]ç+_ âZçX]y aeâE0T0æY0S | <input type="checkbox"/> |
| c) Landline to mobile phone communication<br>â_%ççç %ç»0â]ç]çç_» ]çLT0aeâ^çG<br>â_300_c+X A]ye â]ç]ç+_â ]y ]a]N aeâ^çG 0çYX | d) Satellite television communication<br>0çYGD=â0ç_ X]0çX aeâ^çG<br>0çYGD=â0ç_ X]ç X aeâ^çG            |                          |

23. During the partition of Bengal in 1905, the Governor General was :

[yt x]yçLX (1905) » a]rT0G\ç» âLâXâ»\_ âEçX %ççç ?  
[yt x]yçLâX]ya]r 1905 A \ç]Tç]yG\ç]yâLXç]y\_ çâ\_X :

- |                                    |                                      |  |   |                          |
|------------------------------------|--------------------------------------|--|---|--------------------------|
| a) Lord Ripon<br>_00»YX<br>_00ç]YX | b) Lord Curzon<br>_00EçLç<br>_00EçLç | c) Lord Dalhousie<br>_00â00_cç00Y<br>_000ç_cç=aY | d) None of the these.<br>âEççXç Xçç<br>âEçç+ XX | <input type="checkbox"/> |
|------------------------------------|--------------------------------------|--|---|--------------------------|

24. The system of economy India has :

\ç»TçT0»E0%UçYçT0Y00ç\_T0?  
\ç]yT0âEçX %UçXçTçE0Y^çT0Y00ç\_T0?

- |   |  |  |  |                          |
|---|--|--|--|--------------------------|
| a) Capitalist Economy<br>YçL [çVY %UçYçT0<br>YçL [çVY %UçYçT0 | b) Socialist Economy<br>a]çLTçç]çE0%UçYçT0<br>a]çLTçç]çE0%UçYçT0 | c) Mixed Economy<br>x]`0%UçYçT0<br>x]`0%UçYçT0 | d) None of the these.<br>Aççç Xçç<br>Aççç Xç | <input type="checkbox"/> |
|---|--|--|--|--------------------------|

25. The famous detective character 'Feluda' is created by :

x]FicT0âGçç^3Vç ç0»y âZ0\_Vç» 0ççç âEçX ?  
x]FicT0âGçç^3Vç ç0]y âZ0\_Vç]y 0ççç âE0 ?

- |   |  |  |                             |                          |
|---|--|--|-----------------------------|--------------------------|
| a) Khuswant Singh<br>Fç YUçae<br>Fç YUçae | b) Satyajit Ray<br>aT0çLT0»r<br>aT0çLT0]çr | c) Agatha Christie<br>%çççççç çy0rç<br>%çççççç çy0rç | d) Vikram<br>x]yç0<br>x]yç0 | <input type="checkbox"/> |
|---|--|--|-----------------------------|--------------------------|

### General English

26. To be honest, I have never ..... in a balloon.

- |           |          |           |         |                          |
|-----------|----------|-----------|---------|--------------------------|
| a) flowed | b) flown | c) flying | d) flew | <input type="checkbox"/> |
|-----------|----------|-----------|---------|--------------------------|

27. What exercise do you like doing ..... of all?

- |         |         |             |           |                          |
|---------|---------|-------------|-----------|--------------------------|
| a) most | b) best | c) the best | d) before | <input type="checkbox"/> |
|---------|---------|-------------|-----------|--------------------------|

28. Are you aware of the latest ..... in children's clothing?  
 a) Tendency                      b) trend                      c) custom                      d) habit
29. He used to work in the city .....  
 a) had he?                      b) does he?                      c) has he?                      d) didn't he?
30. What would you like to eat for lunch? ..... I don't mind.  
 a) Nothing                      b) Something                      c) Everything                      d) Anything
31. My boss told me to keep \_\_\_\_\_ the good work I had been doing for the last two years.  
 a) Away                      b) In                      c) No preposition                      d) Up
32. He refused to go until he ..... seen all the paintings.  
 a) had                      b) was                      c) is                      d) has
33. It's easy to see from the way the garden is looking that winter has .....  
 a) Set out                      b) Set in                      c) Set up                      d) Set off
34. A burglar ..... when I was away on vacation and stole of my electronic goods.  
 a) Broke into                      b) Broke off                      c) Broke open                      d) Broke up
35. I worked out the answer in the end by putting two and two .....  
 a) Aside                      b) Apart                      c) Together                      d) Through
36. After the terrible tsunami our oderly lives became .....  
 a) Chaotic                      b) Erotic                      c) Exotic                      d) Robotic
37. She likes to take the opposite point of view and play the devil's .....  
 a) Lawyer                      b) Advocate                      c) Support                      d) Attitude
38. After the first revolution the dictator no longer had much control and became just a paper .....  
 a) Lion                      b) Tiger                      c) Elephant                      d) Cat
39. I ..... The bus coming now.  
 a) Have seen                      b) Had seen                      c) Am seeing                      d) Can see
40. Some of the luggage ..... not yet arrived.  
 a) Has                      b) Have                      c) Is                      d) Are.
41. Animals living in groups or herds are :  
 a) Social                      b) Posthumous                      c) Ridiculous                      d) Gregarious

Select from the choices given below each sentence the word that is nearest in meaning to the word given in *italics*.

42. My watch is quite *inexpensive*.

- a) Good                      b) Old                      c) Cheap                      d) Popular

43. He made a *candid* confession of his involvement in the plot.

- a) Dishonest                      b) Forceful                      c) Sweet                      d) Frank

Select from the choices given below each sentence the word that is opposite in meaning to the word given in *italics*. ( Q. 61 to 65)

44. My friend has a fascination for *antique* things.

- a) Strange                      b) Funny                      c) Ancient                      d) Modern

45. We became *jubilant* when our team scored the winning goal.

- a) Despondent                      b) Indifferent                      c) Indolent                      d) quite

In the following group of four words one word is mis-spelt. Find out the mis-spelt word.

46. a) receive                      b) seive                      c) conceive                      d) believe

47. a) truely                      b) sincerely                      c) gratefully                      d) ideally.

Mark the right choice on the basis of the relationship shown in the first part of the question :

48. **Gold : Ornament**

- a) silver : metal  
b) clay : brick  
c) copper : brass  
d) dance : rhythm

49. **Road : Footpath**

- a) park : trees  
b) shoe : lace  
c) market : shop  
d) Sari : border

50. **Poverty : Prosperity**

- a) Intelligence : stupidity  
b) Rain : flood  
c) Train : cart  
d) Love : sorrow



**General Mathematics / අධ්‍යයන ගණිත / අධ්‍යයන ගණිත**

51. If then  $\sqrt{0.05 \times 0.5 \times a} = 0.5 \times 0.05 \times \sqrt{b}$ , then  $\frac{a}{b} = \dots\dots\dots$

$\sqrt{\phantom{x}}$   $= 0.5 \times 0.05 \times \sqrt{b} \Rightarrow \frac{a}{b} = \dots\dots\dots$   
 $\sqrt{\phantom{x}}$   $= 0.5 \times 0.05 \times \sqrt{b} \Rightarrow \frac{a}{b} = \dots\dots\dots$

- a) 0.0025      b) 0.025      c) 0.25      d) None of these

52. Factorise  $\frac{x^3}{27} + \frac{y^3}{125} + \frac{x^2y}{15} + \frac{xy^2}{25}$

$\frac{x^3}{27} + \frac{y^3}{125} + \frac{x^2y}{15} + \frac{xy^2}{25}$   
 $\frac{x^3}{27} + \frac{y^3}{125} + \frac{x^2y}{15} + \frac{xy^2}{25}$

- a)  $(\frac{x}{3} + \frac{y}{5})^3$       b)  $(3x + 5y)^3$       c)  $(5x + 3y)^3$       d)  $(\frac{x}{3} + \frac{y}{5})^3$

53. A dealer buys an article for Rs. 380. At what price must he mark it so that after allowing a discount of 5%, he still makes a profit of 25%?

Rs. 380 \* 1.25 = 475. 475 \* 0.95 = 451.25

- a) 500      b) 750      c) 900      d) 494

54. The length of a chord of a circle of radius 17 cm and at a distance of 8 cm from the center is ..... cm

17^2 - 8^2 = 225. sqrt(225) = 15

- a) 15      b) 30      c) 28      d) 34

55. An accurate clock shows the time as 3:00 after the hour and has moved by 135°, the time would be .....

3:00 + 135/360 \* 60 = 3:22.5

- a) 9:30      b) 8:00      c) 7:30      d) 6:30

56. The perimeter of the figure given below is ..... M.

Figure description: A square with side length 142m. A semicircle is attached to one side with diameter 142m. The perimeter is 142 + 142 + 142 + 142 + (1/2 \* 2 \* pi \* 71) = 580.8

- a) 44      b) 58      c) 142      d) None of these

57. What must be subtracted from  $\frac{x}{y}$  to make it  $\frac{x}{y}$  ?

» Y»ç Eö » [j] ^ ç G Eö » ä \_ c ÷ [j] ?  
 ð U ä Eö » Eö » [j] ^ ç G Eö [j] ä \_ c ä [j] ?

- a)  b)  c)  d)

58. (  $\frac{2y}{y+x} + \frac{y}{y+x}$  ) = .....

- a)  $\frac{2y}{y+x}$  b)  $\frac{y}{y+x}$  c)  $\frac{3y}{y+x}$  d)  $\frac{y}{2y+x}$

59. The length of a minute hand of a clock is 5 cm. What area will it cover in 15 minutes ?

- a)  $25\pi$  cm<sup>2</sup> b)  $\frac{25\pi^2}{4}$  cm<sup>2</sup>  
 c)  $\frac{25\pi}{4}$  cm<sup>2</sup> d)  $\frac{\pi}{4}$  cm<sup>2</sup>

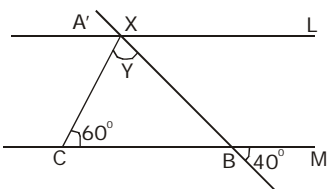
60. If  $a^2 + b^2 + c^2 = ab + bc + ca$ , then the value of  $a^3 + b^3 + c^3$  is .....

- a)  $3abc$  b)  $3(abc)^3$  c)  $3a^2b^2c^2$  d)  $a+b+c$

61. The average of  $x_1, x_2$  and  $x_3$  is 14. Twice the sum of  $x_2$  and  $x_3$  is 30. What is the value of  $x_1$  ?

- a) 20 b) 27 c) 16 d) 12

62. If  $L \parallel M$ , then measure of  $\angle x$  and  $\angle y$  are ..... and .....



- a)  $140^\circ, 80^\circ$  b)  $100^\circ, 80^\circ$  c)  $40^\circ, 100^\circ$  d)  $140^\circ, 60^\circ$

63.  $(0.001725)^B = \dots\dots\dots$   
 a) 0.12                      b) 12                      c) 1.2                      d) None of these ~~ABC XcF / aEcXbc-0Xr~~

64. Which of the following statement is correct ?  
~~Tö » äEcXä00 Q0Np aTö ?~~  
~~XVäüjäEcX a]VEäY aTö ?~~  
 a)  $\sqrt{a} + \sqrt{b} = \sqrt{a+b}$                       b)  $\sqrt{a-b} = \sqrt{a} - \sqrt{b}$    
 c)  $\sqrt{a^2 \times b^2} = ab$                       d) All of these (~~%00-0E00~~) a[EäÖü

65. Which of the following polynomials is in the standard form ?  
~~Tö » äEcXä00 [sYV »c^ Y0]cSE0»ÖYT0%caK:~~  
~~XVäüjäEcX [sYV [c^ Y0]cXE0]0Y %caK:~~  
 a)  $x^3 - 2x^4 + x - 1$                       b)  $x^8 - x^5 + 1$    
 c)  $-ax^3 - 2bx^2 + cx^2$                       d)  $7x^2 + x^1 + 3$

66. Find the compound interest on Rs. 125000 at 24% per annum for 32 months, compounded monthly.  
~~125000 24% cä 3 ]cc» JöyÜk^ü aTöE0]cX c=y ^V aTö]cc\*\_ GXXc E0c cF ?~~  
~~125000 0cE0]y 24% cäly 3 ]ca]y JöyÜk^ü aVöE0T0c+a]y ^V aV Y0T0E0]ca GXXc Eä]c cF ?~~  
 a) 5611                      b) 5600                      c) 7651                      d) None of these ~~ABC XcF / äEcXbc-0Xr~~

67. What is the value of the expression given below, when  $x = 12$  and  $y = -12$   
~~(Tö TöVrç 000» ]cX »E0]cX c=y ä^xT0c x = 12 %c»0 y = -12 c=y)~~  
~~^V x = 12 A]e y = -12, T0cä\_ A]y ]cX E0T0c+a]y ?~~  
 $(x-y)(x+y)$   
 a) 288                      b) 144                      c)  $\sqrt{41} \sqrt{21 + \sqrt{19 - \sqrt{9}}}$                       d) 0

68. H.C.F of  $20x^2 - 9x + 1$  and  $5x^2 - 6x + 1$  is :  
~~20x^2 - 9x + 1 %c»0 5x^2 - 6x + 1 » \_açm. :~~  
~~20x^2 - 9x + 1 A]e 5x^2 - 6x + 1 A]y \_façfm~~  
 a)  $5x + 1$                       b)  $5x - 1$                       c)  $5x + 2$                       d)  $5x - 2$

69.  $\dots\dots\dots = \dots\dots\dots$   
 a) 6.4                      b) 6                      c) 5                      d) 3

70. How many times does the 29<sup>th</sup> day of the months occur in 400 consecutive years ?

400 [K→Tō-Eō]çX ]ccTō29 Tō»Fä00%çäK=?

400 [KälyEōTç]çäly29 Tō]F YçCç^ç

- a) 4997 times ([y»)      b) 4495 times ([y»)      c) 4500 times ([y»)      d) 4497 times ([y»)

71. Which of the following is a rational number ?

Tō\_» äEçXä00 A00 Y»ä]r aeFiç ?

XälyäEçX-00 AEö00 Yç]ä]r aeFiç ?

- a)  $\sqrt{11}$       b)  $\pi$       c) 2.1387569      d) None of these A00 XçF / äEçX00çXr

72. The remainder obtained, when  $t^6 + 3t^2 + 10$  is divided by  $t^3 + 1$  is .....

$t^6 + 3t^2 + 10$  Eö  $t^3 + 1$  is ä» x]çLî Eö»ä\_ \çGä` b UçEdly.....

$t^6 + 3t^2 + 10$  Eö  $t^3 + 1$  Yçly \çG Eö]ä\_ \çGä` b UçEöly.....

- a)  $t^2 - 11$       b)  $3t^2 + 11$       c)  $t^3 - 1$       d)  $1 - t^3$

73. A bus runs at 45 km/hr. How far does it go in 6 sec. ?

AFX [çK÷45 XçX] /H ä]çGä» GxTöEö»ä\_ 6 äKäEö/äTö-Xç]çX Vb %xTöy0] Eö»[y?

AEö00 [çca Y00H300r 45 Xçfç]f %xTöy0] Eö]ä\_ 6 ääEö00 EöTäly %xTöy0] Eö]äTö Yç]äly?

- a) 50 m (x.)      b) 75 m (x.)      c) 65 m (x.)      d) 60 m (x.)

74. One-sixth of the first number, one fifth of the second numbers, one fourth of the third, one third of the fourth and half of the fifth number are same. The five numbers are :

Y0] aeFiç» AEöb00e` , xT0r aeFiç» AEöYçü]çe` , T0r aeFiç» AEö]0Tçe` , ]0Tç]i aeFiç» AEöT0r çe` %ç»0Yçü] aeFiç» %Wçe` a]çX çä\_ aeFiç Yç]00 çly:

Y0] aeFiç]YAEöb00e` , xT0r aeFiç]YAEöYçü]çe` , T0r aeFiç]AEö]0Tçe` , ]0Tç]i aeFiç]YAEöT0r çe` A[y Yçü] aeFiç]Y%Wçe` a]çX çe0\_ aeFiç Yç]00 çe0ly:

- a) 35, 31, 20, 22, 12      b) 32, 34, 23, 19, 12  
c) 36, 30, 24, 18, 12      d) None of these A00 XçF / äEçX00çXr

75. If  $(x^4 + \frac{1}{x^4}) = 47$ , then the value of  $x^3 + \frac{1}{x^3} =$  .....

^xV (x<sup>4</sup> + ) = 47 , çF äT000(x<sup>3</sup> + ) » ]çX = .....

^xV (x<sup>4</sup> + ) = 47 , çF Tçcä\_ (x<sup>3</sup> + ) A[y ]çX = .....

- a) 18      b) 27      c) 49      d) 64

General Science / अध्यास १ / अध्यास १

76. When a beam of light enters from one medium to other, the quantity that never changes is ....  
 एक प्रकाश किरण एक माध्यम से दूसरे माध्यम में प्रवेश करती है। निम्नलिखित में से कौन सा मात्रा हमेशा अपरिवर्तित रहती है ?

- a) its direction b) velocity c) frequency d) wave length
- |  |  |  |  |
|--|--|--|--|
| $\theta_i = \theta_r$<br>$n_1 \sin i = n_2 \sin r$ | $v = \frac{c}{\mu}$<br>$\lambda = \frac{v}{f}$ | $f = \frac{v}{\lambda}$<br>$f = \frac{c}{\lambda}$ | $\lambda = \frac{v}{f}$<br>$\lambda = \frac{c}{f}$ |
|--|--|--|--|

77. Which of the following has the highest refractive index ?  
 निम्नलिखित में से कौन सा पदार्थ सबसे अधिक अपवर्तनांक रखता है ?

- a) glass b) water c) benzene d) diamond
- |   |   |   |   |
|---|---|---|---|
| $n_{\text{glass}} > n_{\text{water}} > n_{\text{benzene}} > n_{\text{diamond}}$ | $n_{\text{diamond}} > n_{\text{glass}} > n_{\text{water}} > n_{\text{benzene}}$ | $n_{\text{benzene}} > n_{\text{water}} > n_{\text{glass}} > n_{\text{diamond}}$ | $n_{\text{diamond}} > n_{\text{benzene}} > n_{\text{water}} > n_{\text{glass}}$ |
|---|---|---|---|

78. The metal which combines with oxygen and forms a protective layer on itself is ....  
 वह धातु जो ऑक्सीजन के साथ मिलकर एक संरक्षक परत बनाती है, वह है ?

- a) Az b) Al c) Au d) Rt

79. Carbon becomes available to crop plants in the form of.....  
 कृषि पौधों के लिए कार्बन उपलब्ध होता है कि किस रूप में ?

- a) carbonates b) disaccharides c) carbondioxide d) bi carbonates
- |   |  |  |   |
|---|--|--|---|
| $\text{CaCO}_3$<br>$\text{Na}_2\text{CO}_3$ | $\text{C}_{12}\text{H}_{22}\text{O}_{11}$<br>$\text{C}_6\text{H}_{12}\text{O}_6$ | $\text{CO}_2$<br>$\text{C} + \text{O}_2$ | $\text{CaCO}_3$<br>$\text{Na}_2\text{CO}_3$ |
|---|--|--|---|

80. All real images :  
 सभी वास्तविक छवियाँ :

- a) are erect b) are inverted
- |   |   |
|---|---|
| $\text{u} > \text{v}$<br>$\text{f} < \text{v} < \text{u}$ | $\text{u} < \text{v}$<br>$\text{f} < \text{v} < \text{u}$ |
|---|---|
- c) can appear on a screen d) can not appear on a screen
- |   |   |
|---|---|
| $\text{u} > \text{v}$<br>$\text{f} < \text{v} < \text{u}$ | $\text{u} < \text{v}$<br>$\text{f} < \text{v} < \text{u}$ |
|---|---|

81. The formation of gas bubbles during a reaction is .....

- a) effervescence b) evaporation c) both a and b d) none of these
- |  |  |  |  |
|--|--|--|--|
| $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$ | $\text{H}_2\text{O} \rightarrow \text{H}_2 + \text{O}_2$ | $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$ | $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O} + \text{CO}_2$ |
|--|--|--|--|

82. The particle which determines the nuclear charge of an atom is .....

Y»]çSÇA00» Yç»]çS»E0%çlçX ..... E0çç0XSI^ E0»\*  
 Ylç]çSÇAE00çYçlç]çX»çYçE0%çlççY ..... E0çç XSI^ E0lçY\*

- a) electron  
ç0\_k0X  
+ä\_k0X
- b) neutron  
X000X  
X=0X
- c) proton  
Y00X  
æV00X
- d) none of the above  
A00C XçF  
AE00C Xç

83. Identify the organism that is neither Eukaryote nor prokaryote.

T0\_» äEçX000 L V¼ aeaEçbäE0V00^ XT0çY Y0EçbäE0V00^ XçF :  
 XlçlçYäEçX00 L V¼ aeaEçbäE0V00^ XT0çç Y0EçbäE0V00^ Xlç :

- a) Yeast  
ç00  
+ä^r0
- b) TMV  
X0A] \çç0çKç:  
00A] \çç+çç
- c) Euglena  
ç00GKç  
+=aGKç
- d) Nostoc  
XrE0  
XrE0

84. The vaccine administered orally is for ...

Y000bçlçE0»Eçç» Eçç»äS Fçlçç çF ?  
 äççG Y000bçlçE0 [çL FççlççXç çF »E0äçY LXi ?

- a) BCG  
Xçç0L  
Xçç0L
- b) Measles  
]çL0çç0  
çç]
- c) Small pox  
a»0çç0  
]çä00^
- d) Polio  
Yç\_%'  
Yç\_C

85. Rotation of crops utilises the following principle :

` aicçT0X» ä l uyT0T0\_ » äEçX000 XY»T0 Y00çG E0ç çF :  
 ` aicçlç0XlçY ä l uy XlçlçYäEçX XY»T0 Y00çG E0çç çç+çç UçäE0:

- a) Variation in the mineral content of the soil  
]ç00 F»XL V00^ T0ç»T0]i E0S  
]ç00çYF»XL V00^çYçT0çYçT0] äçY E0ççS
- b) Diversity of plant habits  
0000/ Y0LçT0» X0-T0ç  
=»ä0/ Y0LçT0çY»X0-T0ç
- c) Fixation of atmospheric nitrogen in the soil  
]ç000 [çç0%0\_ç Xçç00LX aea^çLX  
]ç00T0 [çç0%0\_ç Xçç+00LX aea^çLX
- d) Convenience of the farmers.  
E00E0» aççYçç %XçççY  
E00äE0çY aççYçç

86. Magnetic lines of force :

çç=E00^ [ç\_ä»Fçç0  
 çç=E00^ [ç\_äçççç:

- a) Intersect at neutral points  
X»äYl ü000XT0»]ç\_T0çF  
XççYl ü000X çç]ç\_T0çF
- b) Intersect near the north pole  
0000 ä]»0T0»]ç\_T0çF  
=wççYä]ççT0»]ç\_T0çF
- c) Intersect near the south pole  
V»l üS ä]»0T0»]ç\_T0çF  
V»l üS ä]ççT0»]ç\_T0çF
- d) Never intersect  
äE000çç çç]ç\_T0XçF  
E0Fçç çç]ç\_T0çF Xç

87. A red rose with a green leaf is seen through a yellow filter. How will the rose and the leaf appear to be ?

- a) red, black  
 b) red, green  
 c) yellow, yellow  
 d) black, black

88. Which of the following is a neutralisation reaction ?

- a)  $CuO + H_2 \rightarrow Cu + H_2O$   
 b)  $NaOH + HCl \rightarrow NaCl + H_2O$   
 c)  $2NH_3 + 3Cl_2 \rightarrow N_2 + 6HCl$   
 d)  $2H_2S + SO_2 \rightarrow 2H_2O + 3S$

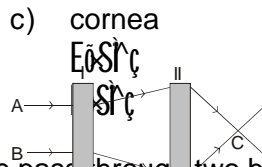
89. Viruses can be assumed to be living because :

- a) They can be crystallised  
 b) They have no metabolism of their own  
 c) They replicate  
 d) They have no cellular structure

90. The intensity of light entering our eye is controlled by :

- a) iris  
 b) pupil  
 c) cornea  
 d) ciliary muscles

91. Two parallel rays of light A and B as shown in the figure pass through two boxes. The possible combination of devices to be used in boxes



- a) convex lens and concave lens  
 b) concave lens and convex lens  
 c) concave mirror and convex mirror  
 d) None of the above.

92. Which of the following make hemoglobin of blood incapable of carrying oxygen to other parts of the body ?

Tō » āEōXāōō% āVc» x[āō`%ē`ē`%j āLX EōōccōXrctōxc:] GA[XEō%a]UiEō» āTōā\_ ?

XāūdyāEōXōō` [yālyx[āō`%ēā`%j āLX [jX Eōā[āTōxcā]cāGā[āEō%a]UiEō[ā]c āTōā\_ ?

- a) chlorine                      b) nitrogen                      c) carbon monoxide              d) sulphur dioxide.

93. Which of the following attack the lungs ?

Tō » āEōXāōō% cēCqōCqō%ōHctōEō» ?

XāūdyāEōXōō ZōaZōāāEō%ōHctōEō[ā] ?

- a) Vibrio cholerae                      b) Mycobacterium tuberculosis
- c) Salmonella typhi                      d) Varicella zoster

94. To ring an electric buzzer we need ..

ē[VōTāEō [āLc] [āLc[ā] ..... [ā]cē» Eōc cā\*  
+ā EōX Eō [āLcā] x X [āLc+āTōc+ā ..... [ā]cē[ā]Ed[ā] cā\*

- a) A.C                                      b) D.C                                      c) a and b                                      d) None of these

95. .... is an example of unicellular organism

AEāEōb[ā] L[ā]» QāVc» S :  
AEāEōb[ā] L[ā][ā] = Vc[ā] S :

- a) Giardia                                      b) Chara                                      c) None of the above
- d) Salvia

96. Plasmids are present in .....

..... TōYāLx] Qō%cāK\*  
..... A Yāx] Qā %cāK\* :

- a) virus                                      b) diatom                                      c) bacteria                                      d) None of these

97. .... is a symbiotic association in between specific group of fungi and specific higher plants.

xēKq cX Gk» x` Yc» \_GTōxēKq cX ā\ēō» x` acL[ā]Tō Gxō QāPōTōEō ..... ā[ā]\_\*  
Eōā Eōō x\āō GcāK[ā] [ā] [ā] xēTō Eōā Eōō x\āō KycāEd[ā] ā` acL[ā]Tō Gxō [ā] = āPōTōcāEō ..... [ā]\_\*

- a) lichen                                      b) algae                                      c) mychorhyza                                      d) all of these



98. Aqua regia is a mixture of one volume of concentrated ..... and three volume of concentrated .....

- |                                   |                                   |                          |
|-----------------------------------|-----------------------------------|--------------------------|
| a) Nitric acid, sulphuric acid    | b) Hydrochloric acid, nitric acid | <input type="checkbox"/> |
| c) Nitric acid, Hydrochloric acid | d) None of these                  |                          |

99. Radio active isotopes of ..... is used in the treatment of cancer

- |            |           |           |                 |                          |
|------------|-----------|-----------|-----------------|--------------------------|
| a) Uranium | b) Copper | c) Cobalt | d) All of these | <input type="checkbox"/> |
|------------|-----------|-----------|-----------------|--------------------------|

100. German silver is an alloy of ..... , ..... and .....

- |                  |                  |                          |
|------------------|------------------|--------------------------|
| a) Cu, Zn and Ni | b) Cu, Pb and Sn | <input type="checkbox"/> |
| c) Cu, Sn and Zn | d) Cu, Fe and C  |                          |

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