

AJMAL NATIONAL TALENT SEARCH (ANTS) EXAMINATION - 2011

Class : X

Time / a]¹ : 2 hours/ H³⁰

Full Marks/ 100 / अंकों का योग (25+25+25+25)=100

General Knowledge / અધ્યાત્મ પુષ્પ / અધ્યાત્મ પુષ્પ

(2)

4. The 16th SAARC SUMMIT was held in 2010 at-

2010 **Tö₁ED₂ ñia₃phi₄ X EdTö%Xo₅Tö₆c₇:** ?

2010 **a₁Xly₂Ed₃ ñia₄phi₅ X Ed₆u₇ %Xo₈Tö₉c₁₀:** ?

a) Katmandu
E₁o₂p₃ç₄

b) Thimpu
ñ₁Y₂C

c) Islamabad
+₁ç₂d₃y₄/ +a₅ç₆d₇y₈

d) Dhaka
ñ₁E₂ç

5. How many Rajya Sabha Seats are there in Assam ?

%a]Tö]B»d₁i a\ø₂ %çax₃ aeFiç₄Eg₅c₆: ?

%çax₁] [y₂l₃ia\ñ₄y₅a%çax₆ aeFiç₇Eg₈Ö?

a) 126

b) 7

c) 10

d) 14

6. The first state of India where the Chief Minister was elected by lottery :-

\ø₁Tö₂ ñ₃Ö₄x₅ »ç₆l₇iTö₈ YÖ₉ [p₁₀] [y₁₁l₁₂ç₁₃æ₁₄g₁₅ X₁₆[p₁₇]Tö₁₈Öc₁₉c₂₀: ?

\ø₁Tö₂ ñ₃Ö₄x₅ [y₆l₇i Tö₈ [y₉l₁₀]Tö₁₁ç₁₂]U₁₃X₁₄[p₁₅]Tö₁₆Öç₁₇c₁₈ _O₁₉[y₂₀]d₂₁jä₂₂: ?

a) Maharashtra
Jce₁ç₂ñ₃]c₄dy₅ñ

b) Madhya Pradesh
Jw₁Y₂r₃

c) Meghalaya
ñ₁Hç₂l₃

d) Mizoram
ñ₁ð₂ø₃ç / ñ₄ð₅l₆j₇

7. The new symbol of Indian rupee ₹ has been designed by -

\ø₁Tö₂]U₃ ñ₄ YÖ₅Ö₆ñ₇ X₈]Kçæ₉Öx₁₀ ñ₁₁Ö₁₂c₁₃: ?

\ø₁Tö₂]U₃ ñ₄ YÖ₅Ö₆ñ₇q₈X₉]Kçæ₁₀Öt₁₁ñ₁₂Y₁₃Ö: ?

a) R. Ashok Kumar
%₁ø₂%₃ñ₄ ñ₅Ö₆ñ₇q₈
%₁ñ₂%₃ñ₄ ñ₅Ö₆ñ₇q₈

b) D. Uday Kumar
ø₁=V₂ñ₃ ñ₄Ö₅ñ₆q₇
ø₁=V₂ñ₃ ñ₄Ö₅ñ₆q₇

c) P. Rabindra Kumar
ñ₁»[y₂V₃ñ₄ ñ₅Ö₆ñ₇q₈
ñ₁»[y₂V₃ñ₄ ñ₅Ö₆ñ₇q₈

d) None of the above
CY» A₂ñ₃ Xc₄ñ₅ñ₆ñ₇ñ₈
AE₂ñ₃ X₄

8. The bathing soap Dove, Liril, Lifebuoy, and Pears are the product of

Gç₁ñ₂ñ₃ñ₄ñ₅ñ₆ñ₇ñ₈ñ₉ñ₁₀ñ₁₁ñ₁₂ñ₁₃ñ₁₄ñ₁₅ñ₁₆ñ₁₇ñ₁₈ñ₁₉ñ₂₀ñ₂₁ñ₂₂ñ₂₃ñ₂₄ñ₂₅ñ₂₆ñ₂₇ñ₂₈ñ₂₉ñ₃₀ñ₃₁ñ₃₂ñ₃₃ñ₃₄ñ₃₅ñ₃₆ñ₃₇ñ₃₈ñ₃₉ñ₄₀ñ₄₁ñ₄₂ñ₄₃ñ₄₄ñ₄₅ñ₄₆ñ₄₇ñ₄₈ñ₄₉ñ₅₀ñ₅₁ñ₅₂ñ₅₃ñ₅₄ñ₅₅ñ₅₆ñ₅₇ñ₅₈ñ₅₉ñ₆₀ñ₆₁ñ₆₂ñ₆₃ñ₆₄ñ₆₅ñ₆₆ñ₆₇ñ₆₈ñ₆₉ñ₇₀ñ₇₁ñ₇₂ñ₇₃ñ₇₄ñ₇₅ñ₇₆ñ₇₇ñ₇₈ñ₇₉ñ₈₀ñ₈₁ñ₈₂ñ₈₃ñ₈₄ñ₈₅ñ₈₆ñ₈₇ñ₈₈ñ₈₉ñ₉₀ñ₉₁ñ₉₂ñ₉₃ñ₉₄ñ₉₅ñ₉₆ñ₉₇ñ₉₈ñ₉₉ñ₁₀₀ñ₁₀₁ñ₁₀₂ñ₁₀₃ñ₁₀₄ñ₁₀₅ñ₁₀₆ñ₁₀₇ñ₁₀₈ñ₁₀₉ñ₁₁₀ñ₁₁₁ñ₁₁₂ñ₁₁₃ñ₁₁₄ñ₁₁₅ñ₁₁₆ñ₁₁₇ñ₁₁₈ñ₁₁₉ñ₁₂₀ñ₁₂₁ñ₁₂₂ñ₁₂₃ñ₁₂₄ñ₁₂₅ñ₁₂₆ñ₁₂₇ñ₁₂₈ñ₁₂₉ñ₁₃₀ñ₁₃₁ñ₁₃₂ñ₁₃₃ñ₁₃₄ñ₁₃₅ñ₁₃₆ñ₁₃₇ñ₁₃₈ñ₁₃₉ñ₁₄₀ñ₁₄₁ñ₁₄₂ñ₁₄₃ñ₁₄₄ñ₁₄₅ñ₁₄₆ñ₁₄₇ñ₁₄₈ñ₁₄₉ñ₁₅₀ñ₁₅₁ñ₁₅₂ñ₁₅₃ñ₁₅₄ñ₁₅₅ñ₁₅₆ñ₁₅₇ñ₁₅₈ñ₁₅₉ñ₁₆₀ñ₁₆₁ñ₁₆₂ñ₁₆₃ñ₁₆₄ñ₁₆₅ñ₁₆₆ñ₁₆₇ñ₁₆₈ñ₁₆₉ñ₁₇₀ñ₁₇₁ñ₁₇₂ñ₁₇₃ñ₁₇₄ñ₁₇₅ñ₁₇₆ñ₁₇₇ñ₁₇₈ñ₁₇₉ñ₁₈₀ñ₁₈₁ñ₁₈₂ñ₁₈₃ñ₁₈₄ñ₁₈₅ñ₁₈₆ñ₁₈₇ñ₁₈₈ñ₁₈₉ñ₁₉₀ñ₁₉₁ñ₁₉₂ñ₁₉₃ñ₁₉₄ñ₁₉₅ñ₁₉₆ñ₁₉₇ñ₁₉₈ñ₁₉₉ñ₂₀₀ñ₂₀₁ñ₂₀₂ñ₂₀₃ñ₂₀₄ñ₂₀₅ñ₂₀₆ñ₂₀₇ñ₂₀₈ñ₂₀₉ñ₂₁₀ñ₂₁₁ñ₂₁₂ñ₂₁₃ñ₂₁₄ñ₂₁₅ñ₂₁₆ñ₂₁₇ñ₂₁₈ñ₂₁₉ñ₂₂₀ñ₂₂₁ñ₂₂₂ñ₂₂₃ñ₂₂₄ñ₂₂₅ñ₂₂₆ñ₂₂₇ñ₂₂₈ñ₂₂₉ñ₂₃₀ñ₂₃₁ñ₂₃₂ñ₂₃₃ñ₂₃₄ñ₂₃₅ñ₂₃₆ñ₂₃₇ñ₂₃₈ñ₂₃₉ñ₂₄₀ñ₂₄₁ñ₂₄₂ñ₂₄₃ñ₂₄₄ñ₂₄₅ñ₂₄₆ñ₂₄₇ñ₂₄₈ñ₂₄₉ñ₂₅₀ñ₂₅₁ñ₂₅₂ñ₂₅₃ñ₂₅₄ñ₂₅₅ñ₂₅₆ñ₂₅₇ñ₂₅₈ñ₂₅₉ñ₂₆₀ñ₂₆₁ñ₂₆₂ñ₂₆₃ñ₂₆₄ñ₂₆₅ñ₂₆₆ñ₂₆₇ñ₂₆₈ñ₂₆₉ñ₂₇₀ñ₂₇₁ñ₂₇₂ñ₂₇₃ñ₂₇₄ñ₂₇₅ñ₂₇₆ñ₂₇₇ñ₂₇₈ñ₂₇₉ñ₂₈₀ñ₂₈₁ñ₂₈₂ñ₂₈₃ñ₂₈₄ñ₂₈₅ñ₂₈₆ñ₂₈₇ñ₂₈₈ñ₂₈₉ñ₂₉₀ñ₂₉₁ñ₂₉₂ñ₂₉₃ñ₂₉₄ñ₂₉₅ñ₂₉₆ñ₂₉₇ñ₂₉₈ñ₂₉₉ñ₃₀₀ñ₃₀₁ñ₃₀₂ñ₃₀₃ñ₃₀₄ñ₃₀₅ñ₃₀₆ñ₃₀₇ñ₃₀₈ñ₃₀₉ñ₃₁₀ñ₃₁₁ñ₃₁₂ñ₃₁₃ñ₃₁₄ñ₃₁₅ñ₃₁₆ñ₃₁₇ñ₃₁₈ñ₃₁₉ñ₃₂₀ñ₃₂₁ñ₃₂₂ñ₃₂₃ñ₃₂₄ñ₃₂₅ñ₃₂₆ñ₃₂₇ñ₃₂₈ñ₃₂₉ñ₃₃₀ñ₃₃₁ñ₃₃₂ñ₃₃₃ñ₃₃₄ñ₃₃₅ñ₃₃₆ñ₃₃₇ñ₃₃₈ñ₃₃₉ñ₃₄₀ñ₃₄₁ñ₃₄₂ñ₃₄₃ñ₃₄₄ñ₃₄₅ñ₃₄₆ñ₃₄₇ñ₃₄₈ñ₃₄₉ñ₃₅₀ñ₃₅₁ñ₃₅₂ñ₃₅₃ñ₃₅₄ñ₃₅₅ñ₃₅₆ñ₃₅₇ñ₃₅₈ñ₃₅₉ñ₃₆₀ñ₃₆₁ñ₃₆₂ñ₃₆₃ñ₃₆₄ñ₃₆₅ñ₃₆₆ñ₃₆₇ñ₃₆₈ñ₃₆₉ñ₃₇₀ñ₃₇₁ñ₃₇₂ñ₃₇₃ñ₃₇₄ñ₃₇₅ñ₃₇₆ñ₃₇₇ñ₃₇₈ñ₃₇₉ñ₃₈₀ñ₃₈₁ñ₃₈₂ñ₃₈₃ñ₃₈₄ñ₃₈₅ñ₃₈₆ñ₃₈₇ñ₃₈₈ñ₃₈₉ñ₃₉₀ñ₃₉₁ñ₃₉₂ñ₃₉₃ñ₃₉₄ñ₃₉₅ñ₃₉₆ñ₃₉₇ñ₃₉₈ñ₃₉₉ñ₄₀₀ñ₄₀₁ñ₄₀₂ñ₄₀₃ñ₄₀₄ñ₄₀₅ñ₄₀₆ñ₄₀₇ñ₄₀₈ñ₄₀₉ñ₄₁₀ñ₄₁₁ñ₄₁₂ñ₄₁₃ñ₄₁₄ñ₄₁₅ñ₄₁₆ñ₄₁₇ñ₄₁₈ñ₄₁₉ñ₄₂₀ñ₄₂₁ñ₄₂₂ñ₄₂₃ñ₄₂₄ñ₄₂₅ñ₄₂₆ñ₄₂₇ñ₄₂₈ñ₄₂₉ñ₄₃₀ñ₄₃₁ñ₄₃₂ñ₄₃₃ñ₄₃₄ñ₄₃₅ñ₄₃₆ñ₄₃₇ñ₄₃₈ñ₄₃₉ñ₄₄₀ñ₄₄₁ñ₄₄₂ñ₄₄₃ñ₄₄₄ñ₄₄₅ñ₄₄₆ñ₄₄₇ñ₄₄₈ñ₄₄₉ñ₄₅₀ñ₄₅₁ñ₄₅₂ñ₄₅₃ñ₄₅₄ñ₄₅₅ñ₄₅₆ñ₄₅₇ñ₄₅₈ñ₄₅₉ñ₄₆₀ñ₄₆₁ñ₄₆₂ñ₄₆₃ñ₄₆₄ñ₄₆₅ñ₄₆₆ñ₄₆₇ñ₄₆₈ñ₄₆₉ñ₄₇₀ñ₄₇₁ñ₄₇₂ñ₄₇₃ñ₄₇₄ñ₄₇₅ñ₄₇₆ñ₄₇₇ñ₄₇₈ñ₄₇₉ñ₄₈₀ñ₄₈₁ñ₄₈₂ñ₄₈₃ñ₄₈₄ñ₄₈₅ñ₄₈₆ñ₄₈₇ñ₄₈₈ñ₄₈₉ñ₄₉₀ñ₄₉₁ñ₄₉₂ñ₄₉₃ñ₄₉₄ñ₄₉₅ñ₄₉₆ñ₄₉₇ñ₄₉₈ñ₄₉₉ñ₅₀₀ñ₅₀₁ñ₅₀₂ñ₅₀₃ñ₅₀₄ñ₅₀₅ñ₅₀₆ñ₅₀₇ñ₅₀₈ñ₅₀₉ñ₅₁₀ñ₅₁₁ñ₅₁₂ñ₅₁₃ñ₅₁₄ñ₅₁₅ñ₅₁₆ñ₅₁₇ñ₅₁₈ñ₅₁₉ñ₅₂₀ñ₅₂₁ñ₅₂₂ñ₅₂₃ñ₅₂₄ñ₅₂₅ñ₅₂₆ñ₅₂₇ñ₅₂₈ñ₅₂₉ñ₅₃₀ñ₅₃₁ñ₅₃₂ñ₅₃₃ñ₅₃₄ñ₅₃₅ñ₅₃₆ñ₅₃₇ñ₅₃₈ñ₅₃₉ñ₅₄₀ñ₅₄₁ñ₅₄₂ñ₅₄₃ñ₅₄₄ñ₅₄₅ñ₅₄₆ñ₅₄₇ñ₅₄₈ñ₅₄₉ñ₅₅₀ñ₅₅₁ñ₅₅₂ñ₅₅₃ñ₅₅₄ñ₅₅₅ñ₅₅₆ñ₅₅₇ñ₅₅₈ñ₅₅₉ñ₅₆₀ñ₅₆₁ñ₅₆₂ñ₅₆₃ñ₅₆₄ñ₅₆₅ñ₅₆₆ñ₅₆₇ñ₅₆₈ñ₅₆₉ñ₅₇₀ñ₅₇₁ñ₅₇₂ñ₅₇₃ñ₅₇₄ñ₅₇₅ñ₅₇₆ñ₅₇₇ñ₅₇₈ñ₅₇₉ñ₅₈₀ñ₅₈₁ñ₅₈₂ñ₅₈₃ñ₅₈₄ñ₅₈₅ñ₅₈₆ñ₅₈₇ñ₅₈₈ñ₅₈₉ñ₅₉₀ñ₅₉₁ñ₅₉₂ñ₅₉₃ñ₅₉₄ñ₅₉₅ñ₅₉₆ñ₅₉₇ñ₅₉₈ñ₅₉₉ñ₆₀₀ñ₆₀₁ñ₆₀₂ñ₆₀₃ñ₆₀₄ñ₆₀₅ñ₆₀₆ñ₆₀₇ñ₆₀₈ñ₆₀₉ñ₆₁₀ñ₆₁₁ñ₆₁₂ñ₆₁₃ñ₆₁₄ñ₆₁₅ñ₆₁₆ñ₆₁₇ñ₆₁₈ñ₆₁₉ñ₆₂₀ñ₆₂₁ñ₆₂₂ñ₆₂₃ñ₆₂₄ñ₆₂₅ñ₆₂₆ñ₆₂₇ñ₆₂₈ñ₆₂₉ñ₆₃₀ñ₆₃₁ñ₆₃₂ñ₆₃₃ñ₆₃₄ñ₆₃₅ñ₆₃₆ñ₆₃₇ñ₆₃₈ñ₆₃₉ñ₆₄₀ñ₆₄₁ñ₆₄₂ñ₆₄₃ñ₆₄₄ñ₆₄₅ñ₆₄₆ñ₆₄₇ñ₆₄₈ñ₆₄₉ñ₆₅₀ñ₆₅₁ñ₆₅₂ñ₆₅₃ñ₆₅₄ñ₆₅₅ñ₆₅₆ñ₆₅₇ñ₆₅₈ñ₆₅₉ñ₆₆₀ñ₆₆₁ñ₆₆₂ñ₆₆₃ñ₆₆₄ñ₆₆₅ñ₆₆₆ñ₆₆₇ñ₆₆₈ñ₆₆₉ñ₆₇₀ñ₆₇₁ñ₆₇₂ñ₆₇₃ñ₆₇₄ñ₆₇₅ñ₆₇₆ñ₆₇₇ñ₆₇₈ñ₆₇₉ñ₆₈₀ñ₆₈₁ñ₆₈₂ñ₆₈₃ñ₆₈₄ñ₆₈₅ñ₆₈₆ñ₆₈₇ñ₆₈₈ñ₆₈₉ñ₆₉₀ñ₆₉₁ñ₆₉₂ñ₆₉₃ñ₆₉₄ñ₆₉₅ñ₆₉₆ñ₆₉₇ñ₆₉₈ñ₆₉₉ñ₇₀₀ñ₇₀₁ñ₇₀₂ñ₇₀₃ñ₇₀₄ñ₇₀₅ñ₇₀₆ñ₇₀₇ñ₇₀₈ñ₇₀₉ñ₇₁₀ñ₇₁₁ñ₇₁₂ñ₇₁₃ñ₇₁₄ñ₇₁₅ñ₇₁₆ñ₇₁₇ñ₇₁₈ñ₇₁₉ñ₇₂₀ñ₇₂₁ñ₇₂₂ñ₇₂₃ñ₇₂₄ñ₇₂₅ñ₇₂₆ñ₇₂₇ñ₇₂₈ñ₇₂₉ñ₇₃₀ñ₇₃₁ñ₇₃₂ñ₇₃₃ñ₇₃₄ñ₇₃₅ñ₇₃₆ñ₇₃₇ñ₇₃₈ñ₇₃₉ñ₇₄₀ñ<sub

(3)

10. Who can seek information under the RTI Act 2005 ?

RTI %cX 2005 %XçöYæóK Tüi» [ýáy%çäYX Eö»[ýYçä] ?

RTI %cX 2005 %XçöYTaÜiyLXi æö%çäYX Eö»[ýTöYçä] ?

- | | | | |
|-----------------------------------|---|---|--|
| a) A group of person
[ýNþa] *ô | b) Individual citizen
[ýçñjGTöXG] Eö | c) A registered company
AöYt VÉtöEçYçY | d) An association/society
Aöö aeç
AEööYt VÉtöEçYçY |
|-----------------------------------|---|---|--|

11. According to the Census 2011 the sex ratio (females per thousand males) in India is :

2011 Jö» å_ EöVl _ %Xö» \öTöö_ t %XVçTö()xçç Yçöçéç » {Y» VéTö c!_ f

2011 aax[yå_EGSXç] aTö \öTö_ t %XVçTö()xçç Yçöçéç d{Y}öö b c+ _ f

- | | | | |
|--------|---------|--------|--------|
| a) 900 | b) 1058 | c) 933 | d) 946 |
|--------|---------|--------|--------|

12. If you are working and living at Delhi, can you be a voter in your native village ?

^V %çYX V{V_ X{[y]aY%ç»ÖTööTöEdj»Toatdö%çYXç »XL GçCçjöa_ ö» c:[yYç»[yK ?

^V %çYX V{V[y]aVçA[e åFçX Edj]Tö TöY%çYX %çYXdyXä_ [yG]ä [yä öö]çäTöYdy]X ?

- | | | | |
|--|---|---|---|
| a) Yes, you can
cf, %çYX Yç»[y
çj, %çYX Yd[y]X | b) No, you can't
Xçf, Xçç/ö
Xç %çYX Yd[y]Xç | c) In both place you can
VççPüäTöYç»[y
VççööX+ Yd[y]X | d) Only in your living place you can
Eö4 [y[y]a Eö»çPüäTöYç»[y
EöçXä_ [y[y]a Eö»çYd[y]X |
|--|---|---|---|

13. Which of the following batsmen has hit the maximum number of sixes in an ODI Cricket Match ?

AJXVç%çDöÖTööYç»ÖTööTö » EöXLX äöö]X a[yMföaeFiEöKF Eöy] ?

XVädyæöX Eä_ ööAEööVä [y[y]Eöö]çäöa[yMföaeFiEöKF]çäjX ?

- | | | | |
|---|---|--|---|
| a) S.R. Watson
AK-%ç» CñööX
AK-%çyCñööX | b) X.M. Marshall
Aj A]]çä L
Aj A]]ç ç | c) S.T. Jaysurya
AK-ööL]aEí
Aa ööL]aEí | d) M.S. Dhoni
A] AK-äöY
A] Aa äöY |
|---|---|--|---|

14. Under which Act, the Election Commission of India Conducts the Election ?

EöX %çX » %VKTö\öTö_ X[yöY%çäG X[yöX Y»[yç Eö» ?

\öyTö_ X[yöY%çäG EöX %çä[Y%çX X[yöX Y»[yç Eö» ?

- | | |
|---|--|
| a) Peoples Representation Act of India
äYçö»äYæöXäö X Akö%3/4+äöç
äY_a äYæöXäö X Akö%[y+äöç | b) Peoples Regulation Act of India
äYçö»mä_öX Akö%3/4+äöç
äY_a äYnä_ X Akö%[y+äöç |
| c) Indians Peoples Representative Act
+äöçXäöäYçö»äYæöXäöööAkö
+äöçXäöäY_a äYæöXäöööAkö | d) Indian Peoples Representative Act
+äöçXäöäYçö»äYæöXäöööAkö
+äöçXäöäY_a äYæöXäöööAkö |

(4)

15. Where is the IPL (Indian Premier League) Head Quarters located ?

IPL + % X X g T o > [c] E i E c ^ i c & E d T o % 3 / 4 T o ?

IPL (+ % X X g T o y _ Y G l)] E i E c ^ i c & E d U d % [y T o ?

a) New Delhi

X T o X { Y T o
X T o X { Y

b) Mumbai

J C T o
J C

c) Kolkata

E o E c T o
E o E c T o

d) Hyderabad

C d V » d y l
C d V » d y l

16. 'Vanar Sena' which participated in freedom struggle of India was led by -

V o T o O u M K T o a e G l T o % e ` a _ c / " y x > a x c > a T h e o x X k s _ ?

V o y a y o u M K T o a e G l a ^ G V o x E d c " y x l y a x d y a T c k a X -

a) Sarojini Naidu

a a > L X Y X g - 0 6
a a y L X Y X g - 0 6

b) Indira Gandhi

ইন্দিৰা গান্ধী
ইন্দিৱা গান্ধী

c) Vijoy Lakshmi Pandit

Y J I - C Y Y % E o
Y J I - C Y Y % E o

d) Annie Besant

A X a j a d u
A X a j a d u

17. Gandhiji was referred to as "Mahatma" first by whom ?

গান্ধীজীক প্রথমে কোনে 'মহাত্মা' নাম দিছিল ?

কে প্রথম গান্ধীজিকে 'মহাত্মা' নামে সম্মোধন করেন ?

a) Subhas Ch. Bose

a R o b S v I y a C

b) Rabindra Nath Tagore

» Y V D J P E o / Y V D J P E o y

c) Mohd. Iqbal

J C W + E d c

d) Abul Kalam Azad

% d f E c _ c % d _ d

18. The storage device that has high cost per bit of storage is :

Y B e o > [y b a t u] E o > [y a l y = J o V > [y C X E o > [y G V c a t u] % c e = c [y c : _ -

Y B e o > [y b a t u] E d y l y L x i = J o V [y [y C X E d c a t u] [y a l y t c] c + _ -

a) SDRAM

A s D o o a]
A a > o o y

b) Cache Memory

E o o a] ' »
E o a] ' y

c) ROM

» ']
l y

d) Hard Disk

C o D o o E o
C o D o o o

19. When did Women first participate in the Olympic Games ?

E d c X X T o Y U a]] c : c % x _ x E d o % e ` e _ k : ?

E d c X a k] c : c Y U] [y a l y] a t c % x _ x E d o % e ` a k : ?

a) 1896

b) 1900

c) 1912

d) 1932

20. Which dance form is also known as 'Dasi Nattam' ?

E d c X T o E o V c a Y X o] [y C a E c c c ?

E d c X T o E o V c a Y X o] ' [y C L d c c ^ c ?

a) Kathakali

E d c E o _

b) Bharat Nattyam

Y o T o X o] A d y T o X o]

c) Mohini attam

a l c c X Y % o o]

d) Odissi

C o d Y C o o a

(5)

21. Which Sanskrit term meaning "assembly" refers to an important unit of self-government in Hindu society ?
a. विधायक विधान सभा ?
b. विधायक विधान सभा ?

22. What is the full form of GDP ?

GDP » ҮНІ » ОУ » ЕӨ?

"እ, የዕሮም አያየትና ይች?

- | | |
|--|---|
| a) Gross Domestic Product
$\int_{\Omega} \phi(x) = dY/dX$
$\int_{\Omega} \phi(x) = dY/dX$ | b) Gross Development Product
$\int_{\Omega} \psi(x) = dY/dX$
$\int_{\Omega} \psi(x) = dY/dX$ |
| c) Government Direct Product
$\int_{\Omega} \psi(x) = dY/dX$
$\int_{\Omega} \psi(x) = dY/dX$ | d) Government Development Product
$\int_{\Omega} \psi(x) = dY/dX$
$\int_{\Omega} \psi(x) = dY/dX$ |

23. A Cricket player from Assam is playing in the IPL tournament for Mumbai Indians. What is his name ?

IPL 05[ā] a²⁰] + x05[ā] %aā] yāFā_d'0bc+ -

- a) Shubham purkayastha b) Pritam chakraborty c) Abu Nechim d) Amal Mazumdar

ଶୁଭମ ପୁର୍କାୟାଷ୍ଠା ପ୍ରିତାମ ଚକ୍ରାବ୍ରତ୍ୟ ଅବୁ ନେଚିମ ଅମାଲ ମାଜୁମଦାର

24. Which of these is India's only Corel Island ?

Tö »ÆðXæðÆðgy \ø»Tðr Yðc_ ¥W ?

X̄E\yÄ\X\O\yATyAEd\y YDc_ ¥W ?

25. Where did the concept of democracy originate ?

EdTöYùā] GST ö» W»Sç» LX½é‡?

•**Y**ā Yéññúñ "GXTññy WññXññLXññ?

General English

26. Identify the sentence that is incorrect.

- | | |
|--|--|
| a) Honour and glory are his reward. | b) Gold and silver are precious metals |
| c) The horse and carriage is at the door | d) Time and tide waits for none. |

Fill up the blanks with the appropriate choice given in the options.

27. What ----- needed are not large houses but small cottages.

- | | | | |
|-------|--------|--------|-----------|
| a) is | b) are | c) has | d) should |
|-------|--------|--------|-----------|

28. No one ----- about me.

- | | | | |
|----------------|---------------|-------------------|---------------|
| a) shall worry | b) will worry | c) needs to worry | d) need worry |
|----------------|---------------|-------------------|---------------|

29. If you drink too much, it will ----- your judgement.

- | | | | |
|-----------|-----------|-----------|----------|
| a) impede | b) impair | c) impose | d) impel |
|-----------|-----------|-----------|----------|

30. There is no glory in war ----- the blood it ----- .

- | | | | |
|-----------------------|----------------------|-----------------|----------------------|
| a) considering, sheds | b) comparing, spills | c) worth, costs | d) thinking, demands |
|-----------------------|----------------------|-----------------|----------------------|

Pick out the part that can complete the sentence.

31. He seized control of the country

- | | |
|---------------------------------------|--|
| a) by diplomacy and being forceful. | b) by using diplomacy and force |
| c) by being a diplomat and forceful.. | d) not only because of diplomacy but force |

32. I shall not be late for dinner

- | | |
|----------------------------------|--------------------------------------|
| a) if the train is late | b) unless the train will not be late |
| c) unless the train will be late | d) unless the train is late |

33. This building comprises twenty rooms.

- | | | | |
|-------|---------|-------|------------------|
| a) of | b) with | c) in | d) None of these |
|-------|---------|-------|------------------|

34. We are to have him here to make this function a grand success.

- | | | | |
|---------------|------------------|------------------|------------------|
| a) sure, come | b) happy, arrive | c) pleased, over | d) proud , leave |
|---------------|------------------|------------------|------------------|

35. The friends quarreled as they found each other of breach of promise.

- | | | | |
|-------------------------|-------------------|------------------|----------------------|
| a) responsible, serious | b) faulty, severe | c) accused, mean | d) guilty , flagrant |
|-------------------------|-------------------|------------------|----------------------|

(7)

36. The ----- words of the mother comforted the child
- a) soothing, disappointed b) harsh, naughty. c) sweet, happy d) soft, energetic
37. The sentence given here in Active Voice will be changed to which of the following in Passive Voice ?
"I know him . "
- a) He is known by me b) I am known by him c) He is known to me. d) He is known for me.

Choose the word **nearest in meaning** to the word in *italics*

- 38 The chairman conducted the meeting with ***aplomb***.
- a) Arrogance b) annoyance c) poise d) authority
39. The eyewitness testimony was ***incontrovertible***.
- a) Debatable b) unquestionable c) unacceptable d) disputable

Choose the word that is **opposite in meaning** to the word in *italics*

- 40 He appears to be a ***phoney*** person
- a) Duplicate b) genuine c) dishonest d) talkative

Some parts of each of the following sentences, have been jumbled up. You are required to choose the correct sequence to rearrange these parts which are underlined and labeled P, Q, R, S so as to produce the correct sentence.

41. In fact how bank market their services high number of bank accounts per person has more to do with.
- P Q R S

The correct sequence should be :

- a) RPSQ b) QSPR c) RSPQ d) QPSR
42. The government has assured the people that in the Kargil operation who have sacrificed their lives
will be properly looked after the families of all those soldiers.
- P Q
R S

The proper sequence should be :

- a) PSRQ b) SQPR c) SRQP d) SPRQ

(8)

Pick out the correct meaning of the following idioms in bold italics.

43. The professor said to the student, "My **hands are full**. ". The student felt let down..

- | | |
|---|-------------------|
| a) I am having a lot of things to carry | b) I am helpless |
| c) I am anxious | d) I am very busy |
44. The stern looking Mathematics teacher has left our school. I'd say ,it's a **good riddance**.
- | | |
|--|---|
| a) I am happy. We have got rid of a disagreeable person. | b) I am sorry , he was a very good teacher. |
| c) The students will miss him very much | d) It will be very much resented by the students. |

In the following sentences **six parts** are given. The position of sentence 1 and 6 are **fixed**. The rest of the parts are numbered as P , Q , R , S which are **jumbled**. Arrange these four parts in a meaningful sequence marking the correct order of arrangement.

45. 1. He tried the door.

- P. the room was neat and clean
Q. then he stepped in to the room.
R. he waited for a minute or two.
S. it opened easily and he peeped in.
6. he was careful not to touch anything.
- | | | | |
|---------|---------|---------|---------|
| a) PQRS | b) QSPR | c) RPQS | d) SPRQ |
|---------|---------|---------|---------|

46. 1. Hobbies can fill our spare.

- P. physical fatigue, and
Q. moments with enjoyment.
R. and pleasure , they also relieve
S. mental tiredness and
6. do not hinder our regular work.
- | | | | |
|---------|---------|---------|---------|
| a) RQPS | b) QRSP | c) SQPR | D) PQSR |
|---------|---------|---------|---------|

47. Which word does NOT belong with the others?

- | | | | |
|----------|---------|---------|----------|
| a) dodge | b) flee | c) duck | d) avoid |
|----------|---------|---------|----------|

48. Choose the pair that best represents a similar relationship to the one expressed in the original pair of words.

ELEPHANT : PACHYDERM

- | | | | |
|--------------------|--------------------|-------------------------|------------------|
| a) mantis : rodent | b) poodle : feline | c) kangaroo : marsupial | d) zebra : horse |
|--------------------|--------------------|-------------------------|------------------|

49. 'Fire' is related to 'Ashes' in the same way as 'Explosion' is related to :

- | | | | |
|----------|----------|--------------|-----------|
| a) sound | b) flame | c) explosive | d) debris |
|----------|----------|--------------|-----------|

(9)

50. Here are some words translated from an artificial language.

tamceno means sky blue

cenorax means blue cheese

aplmitl means star bright

Which word could mean "bright sky"?

- a) cenotam b) mitltam c) raxmit d) aplceno

General Mathematics / adlı Sınav / admıx sınav

51. The set of all irrational numbers is closed for

aEñç%Y»]I acFio aecTö..... YøÙçacäYälü%qý

aEñ%Y»]I acFidýaecTö..... YøÙçacäYälü%qý

- a) Addition b) Multiplication c) Division d) None of these
AñG *YñS* *CñS* *AñC XçF*
AñG *YñS* *CñS* *AEñC Xñ*

52. The additive inverse of $3x - 4 + \frac{x}{2x-1}$ is

3x - 4 + \frac{x}{2x-1} » AñGçEñ{Y»]I öaeFicñ

3x - 4 + \frac{x}{2x-1} AlýañGçEñ{Y»]I öaeFicñ

- a) $\frac{6x^2-10x+4}{2x-1}$ b) $-3x + 4 - \frac{x}{2x-1}$ c) $-3x + 4 + \frac{x}{2x-1}$ d) $-3x + 4 - \frac{x}{1-2x}$

53. If $P = \frac{x^3+y^3}{(x-y)^2 + 3xy}$, $Q = \frac{(x+y)^2-3xy}{x^3 - y^3}$ and $R = \frac{xy}{x^2 - y^2}$ then the value of $(P \div Q) \times R$ is

AñW P = \frac{x^3+y^3}{(x-y)^2 + 3xy}, Q = \frac{(x+y)^2-3xy}{x^3 - y^3} %çö/ Añyé R = \frac{xy}{x^2 - y^2} cf, atiñ Töý (P \div Q) \times R » / Alý]ç

- a) $x+y$ b) xy c) $x-y$ d) None of these
AñC XçF/ AEñC Xñ

54. For what value of k, the system of equation $kx-y=2$, $6x-2y=3$ has infinitely many solutions ?

'k' » xñç]ç » [yñL kx-y=2, 6x-2y=3 a]Vëç Yñç %æFica]dñX UçEdy?

'k' Alýxñç]ç [yñL kx-y=2, 6x-2y=3 a]EdñX Yñç %æFia]dñX UçEdy?

- a) $k = 3$ b) $k \neq 4$ c) $k = 6$ d) does not exist
Eñçkç]ç Xç/ xñç]ç Xç

(10)

55. If $\frac{x}{b} = \frac{y}{a}$, $bx+ay = a^2+b^2$, then the value of (x,y) are

$\wedge \frac{x}{b} = \frac{y}{a}$, $bx+ay = a^2+b^2$, $\text{cif, Tələm } \text{təq}(x,y) \text{ } / A[y] \text{d} \text{}$

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

56. If $a = b = c$, then the roots of the equation $(x-a)(x-b)+(x-b)(x-c)+(x-c)(x-a) = 0$ are

$\wedge a = b = c \text{ cif, Tələm } (x-a)(x-b)+(x-b)(x-c)+(x-c)(x-a) = 0 \text{ a] } EoS \text{ } [E \text{ } a[y] \text{}$

$\wedge a = b = c \text{ cif, Tələm } (x-a)(x-b)+(x-b)(x-c)+(x-c)(x-a) = 0 \text{ a] } Eds[y] \text{ } [E \text{ } m[x \text{}}$

- a) real and unequal b) imaginary c) real and equal d) None of these
 $\wedge a \neq b \neq c \text{ } A[y] \text{ } A[e[a] \text{ } A[y] \text{ } A[e \text{ } EoC Xcf$
 $\wedge a \neq b \neq c \text{ } A[y] \text{ } A[e[a] \text{ } A[y] \text{ } A[e \text{ } AEoC Xr$

57. The roots of the equation $\frac{x^2}{2} + bx + c = 0$ are integers, if

$\frac{x^2}{2} + bx + c = 0 \text{ a] } EoS \text{ } [E \text{ } a[y] \text{ } \%F\%aeFiçcif \wedge \text{}$

$\frac{x^2}{2} + bx + c = 0 \text{ a] } Eds[y] \text{ } [E \text{ } m[x \text{ } \%F\%aeFiçcif \wedge \text{}$

- a) $b^2 - 2c > 0$ b) $b^2 - 2c$ is the square of an integer and b is an integer
 $\wedge b^2 - 2c \text{ } A[je \%F\%aeFiçcif \text{ } [gi \%Q\bar{0}b \text{ } A[je \%F\%aeFiçcif$
 $\wedge b^2 - 2c \text{ } AEoC \%F\%aeFiçcif \text{ } [gi A[je b \text{ } AEoC \%F\%aeFiçcif$
c) b and c are integers d) b and c are even integers.
 $\wedge b \neq 0 \text{ } \%F\%aeFiçcif$
 $\wedge b \neq 0 \text{ } \%F\%aeFiçcif$

58. Which of the following statements is not true ?

$Tə \text{ } » \text{ } EoX \text{ } = \text{ } Apa \text{ } Tə \text{ } Xcf \text{ ?}$

$X \text{ } \wedge \text{ } A[y] \text{ } = \text{ } Apba \text{ } Tə \text{ } Xr \text{ ?}$

- a) Any two right triangles are similar
 $\wedge \text{ } EoX \text{ } V \text{ } \wedge \text{ } A[y] \text{ } \wedge \text{ } V \text{ } \wedge \text{ } aV \text{ } cf$
 $\wedge \text{ } EoX \text{ } V \text{ } \wedge \text{ } A[y] \text{ } \wedge \text{ } V \text{ } \wedge \text{ } aV \text{ } cf$
- c) Any two rectangles are similar
 $\wedge \text{ } EoX \text{ } V \text{ } \wedge \text{ } \%F\%aeFiçcif \text{ } aV \text{ }$
 $\wedge \text{ } EoX \text{ } V \text{ } \wedge \text{ } \%F\%aeFiçcif \text{ } aV \text{ }$
- b) A square is similar to a rectangle
 $[gi \text{ } \wedge \text{ } \%Q\bar{0} \text{ } \wedge \text{ } Təl \text{ } \wedge \text{ } aV \text{ }$
 $[gi \text{ } \wedge \text{ } A[je \text{ } \%F\%aeFiçcif \text{ } aV \text{ }$
- d) None of the above
 $CY \text{ } » \text{ } A[je \text{ } Xcf$
 $AEoC \text{ } Xr$

59. In a quadrilateral ABCD, $AD = BC$. If P,Q,R,S are mid points of AB, AC, CD and BD respectively then

$\wedge \text{ } ABCD \text{ } \wedge \text{ } AD = BC \text{ } \%Q\bar{0} \text{ } P, Q, R, S \text{ } y \text{ } \wedge \text{ } AB, AC, CD \text{ } \%Q\bar{0} \text{ } BD \text{ } \wedge \text{ }]V \text{ } \wedge \text{ } \{V \text{ } cf, \text{ } at \text{ } \text{}$

$\wedge \text{ } ABCD \text{ } \wedge \text{ } AD = BC \text{ } A[y \text{ } P, Q, R, S \text{ } y \text{ } \wedge \text{ } AB, AC, CD \text{ } A[y] \text{ } \wedge \text{ } \{V \text{ } cf, \text{ } Təl \text{ } \text{}$

- a) PQRS is a rhombus b) PQRS is a square c) PQRS is a rectangle d) None of these
 $PQRS \text{ } A[je \text{ } \wedge \text{ } \wedge \text{ } \wedge \text{ }$
 $PQRS \text{ } A[je \text{ } \wedge \text{ } \wedge \text{ } \wedge \text{ }$
 $PQRS \text{ } AEoC \text{ } \wedge \text{ } \wedge \text{ }$
 $PQRS \text{ } AEoC \text{ } \wedge \text{ } \wedge \text{ }$

(11)

60. If $\sin\alpha + \operatorname{cosec}\alpha = 2$ then $\sin^n\alpha + \operatorname{cosec}^n\alpha = \dots$ a) $\sin\alpha + \operatorname{cosec}\alpha = 2$, b) $\sin^n\alpha + \operatorname{cosec}^n\alpha = \dots$ c) $\sin\alpha + \operatorname{cosec}\alpha = 2$, d) $\sin^n\alpha + \operatorname{cosec}^n\alpha = \dots$ a) n ($\sin\alpha + \operatorname{cosec}\alpha$)

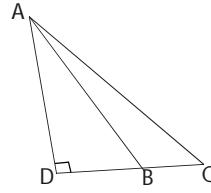
b) 2

c) $\frac{n}{\sin\alpha + \operatorname{cosec}\alpha}$

d) None of these

 A) C XcF / AEoC Xr

61. A ladder of 20 m long touches the wall at height of 10 m. The angle made by it with horizontal is

20 a) CF LF çAO β d β AFXE β 10 = $\tan^{-1}(10/20) = 30^\circ$ 20 b) $\tan^{-1}(10/20) + 90^\circ = 120^\circ$ a) 30° b) 60° c) 45° d) None / A) C XcF / AEoC Xr62. In the figure angle B is obtuse. Then $AC^2 = \dots$  a) $AB^2 + BC^2 - 2BC.BD$ b) $AB^2 + BC^2$ c) $AB^2 + BC^2 + 2BC.BD$ d) $AD^2 + BD^2$

63. A wire bent in the form of a circle of radius 42 cm is cut and again bent in the form of a square. The ratio of the regions enclosed by the circle and the square in the two cases is given by

 a) $\pi r^2 : 4s^2 = \pi(42)^2 : 4(42)^2 = 1 : 1$ b) $\pi r^2 : 4s^2 = \pi(42)^2 : 4(42)^2 = 1 : 1$

a) 11:12

b) 21:33

c) 22:33

d) 14:11

64. A hollow sphere of internal and external diameters 4 cm and 8 cm respectively is melted into a cone of base diameter 8cm. Find the height of the cone ?

 a) $\frac{\pi}{3} \times 4^2 \times 8 = 128\pi$ b) $\frac{1}{3} \pi r^2 h = \frac{1}{3} \pi (4)^2 h = 16\pi h$

a) 14 cm

b) 12 cm

c) 16 cm

d) None

 A) C XcF / AEoC Xr

(12)

65. The width of a rectangle in a Histogram represents

तर्क $\frac{FT}{T} \text{ का तारीख } Y \text{ का } \times \text{ विस्तृति } *$
 तर्क $\frac{FT}{T} \text{ का तारीख } Y \text{ का } \times \text{ विस्तृति } *$

- | | | | |
|----------------------------|-------------------|---------------------------|----------------------|
| a) Mid values of the class | b) Class interval | c) Frequency of the class | d) number of classes |
| $\frac{x_1 + x_2}{2}$ | $x_2 - x_1$ | $\frac{f}{N}$ | N |

66. When $x^5, x + \frac{1}{x}, 1 + \frac{2}{x} + \frac{3}{x^2}$ are multiplied, the product is a polynomial of degree

$x^5, x + \frac{1}{x}, 1 + \frac{2}{x} + \frac{3}{x^2}$ का योग्य एवं अवयवों का गुणनफल x^5 है।

$x^5, x + \frac{1}{x}, 1 + \frac{2}{x} + \frac{3}{x^2}$ का योग्य एवं अवयवों का गुणनफल x^5 है।

- | | | | |
|------|------|------|------|
| a) 5 | b) 6 | c) 4 | d) 3 |
|------|------|------|------|

67. The value of an article which was purchased 2 years ago, depreciates at 12% per annum. If its present value is Rs. 9680, the price at which it was purchased is

वर्तमान में खरीदा गया वस्तु का मूलमूला 12% है। इसका मूलमूला 9680.00 रुपये है।

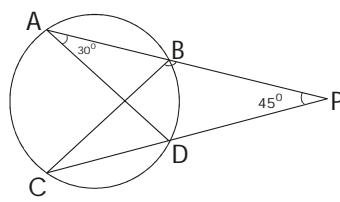
वर्तमान में खरीदा गया वस्तु का मूलमूला 12% है। इसका मूलमूला 9680.00 रुपये है।

- | | | | |
|---------------|---------------|---------------|---------------|
| a) Rs. 10,000 | b) Rs. 12,500 | c) Rs. 14,575 | d) Rs. 16,250 |
| 10,000 | 12,500 | 14,575 | 16,250 |

68. Two chords AB and CD of a circle cut each other when produced outside the circle at P. AD and BC are joined. If $\angle PAD = 30^\circ$ and $\angle CPA = 45^\circ$ find $\angle CBP$.

दो चारों ओर बहुभागी वृत्त की दो जीव AB और CD ने बहुभागी वृत्त की बाहरी ओर पर्याप्त दूरी पर प्रत्येक दूसरे को काटते हैं। AD और BC जोड़े जाएंगे तो $\angle PAD = 30^\circ$ और $\angle CPA = 45^\circ$ होंगे।

दो चारों ओर बहुभागी वृत्त की दो जीव AB और CD ने बहुभागी वृत्त की बाहरी ओर पर्याप्त दूरी पर प्रत्येक दूसरे को काटते हैं। AD और BC जोड़े जाएंगे तो $\angle PAD = 30^\circ$ और $\angle CPA = 45^\circ$ होंगे।



- | | | | |
|----------------|----------------|----------------|------------------|
| a) 105° | b) 115° | c) 135° | d) None of these |
|----------------|----------------|----------------|------------------|

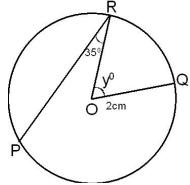
A) C XcF / AEeC X

(13)

69. O is the centre of the circle as shown in the diagram. The distance between P and Q is 4 cm. Then the measure of $\angle ROQ$ is

~~যদি $\angle POQ = 35^\circ$ হলে $\angle ROQ$ এর মান কত ?~~

~~যদি $\angle POQ = 35^\circ$ হলে $\angle ROQ$ এর মান কত ?~~



- a) y° b) 35° c) 105° d) 70°

70. If $\frac{x}{a} \cos\theta + \frac{y}{b} \sin\theta = 1$, $\frac{x}{a} \sin\theta - \frac{y}{b} \cos\theta = 1$ then /

- a) $x^2 + y^2 = a^2 + b^2$ b) $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 2$ c) $a^2 x^2 + b^2 y^2 = 1$ d) None of these

~~AOC কেন্দ্র / AEBC কি~~

71. If the difference between SI and CI on a certain sum of money for 3 years at 10% p.a is Rs. 15.50. The sum is

~~কোনো নিম্নিষ্ট] এবং 10% চে 3 বছরের আওয়াজে 15.50 টাকা] এবং কোনো নিম্নিষ্ট] এবং 10% চে 3 বছরের আওয়াজে 15.50 টাকা] এবং~~

~~দিয়ে কোনো নিম্নিষ্ট] এবং 10% চে 3 বছরের আওয়াজে 15.50 টাকা] এবং~~

- a) Rs. 1,000 b) Rs. 500 c) Rs. 1,500 d) Rs. 2,000

72. Which step in the following problem is wrong ?

~~T_o T_oV_ca] aic_o » E_ox_o b_o v_b ?~~

~~X_oa_o/C_oc_o] aic_oT_oE_o Step %E_o ?~~

$$a = b = 1$$

$$a = b$$

$$\text{Step 1 : } a^2 = ab$$

$$\text{Step 2 : } a^2 - b^2 = ab - b^2$$

$$\text{Step 3 : } (a+b)(a-b) = b(a-b)$$

$$\text{Step 4 : } a+b = \frac{b(a-b)}{(a-b)}$$

$$a+b = b$$

$$1+1 = 1$$

$$2 = 1$$

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

(14)

73. The cube of a number is 8 times the cube of another number. If the sum of the cubes of number is 243, the difference of the numbers is
 A) 3 B) 4 C) 6 D) None of these

74. When the circumference of a circle decreases from, 3π to π , its area decreases by
 A) $16 \frac{2}{3} \%$ B) $66 \frac{2}{3} \%$ C) $88 \frac{8}{9} \%$ D) None of these

75. Which of the following is in descending order.
 A) $\frac{3}{4}, -2, \frac{-11}{20}, \frac{4}{-5}$ B) $\frac{3}{4}, \frac{-11}{20}, \frac{-4}{5}, -2$ C) $\frac{3}{4}, \frac{4}{-5}, -2, \frac{-11}{20}$ D) $\frac{3}{4}, \frac{4}{-5}, \frac{-11}{20}, -2$

General Science / adıNS > [púX / adıNX > [púX

76. Two plane mirrors are inclined to each other at an angle of 60° . If a ray of light incident on the first mirror at an angle of 30° is reflected to the second mirror, it will be reflected again from the second mirror
**VEX a] Tö VçYç 60° EçSTöY» & » ã XlçEö Fçççç* ^V Añññç » » ½Tö FX VçYçTö 30° EçSTö% YxTöç* Tö
 VçYçé_ Yñññç Töç, añññç Yç » » ½Tö VçYç Y»ç%çEö Yñññç Töçý**
**Vçççç] Tö VYçEö 60° Eççç Yç & YçEö & I \çççç Fççççç* ^V AEööö%ç_ çöly ½Tö VYçç 30° Eççç %çYxTöç+ç* Tö
 VYçç Yñññç Töç, Töç%ç_ çöly ½Tö VYçç ññññ%ç Yñññç Töç+çý**

a) Perpendicular to the first mirror
**YÖ] VçYç» _PñV Tö
 YÖ] VYçç[y_ñññçæö**

b) Parallel to the first mirror
**YÖ] VçYç» %XñññEöñV Tö
 YÖ] VYçç[y%Xñññæçýæö**

c) Parallel to the second mirror
***Tö VçYç» %XñññEöñV Tö
 *Tö VYçç[y%Xñññæçýæö**

d) Perpendicular to the second mirror
***Tö VçYç» _PñV Tö
 *Tö VYçç[y_ñññçæö**

(15)

77. In which of the following cases do we get very strong reflected rays and very weak refracted rays ?

Tö» ÄöXÄçålyTö%ç] a[y YgäZö_ Tö»x 1%çÖñç Ygää»Tö»x 1Açj ?

Xébáyæðökþýðal Þý %] [ýca[ý YRðók_Tó[ý ½A[ye Vý] YRðæ[ýTó[ý ½G+ ?

- a) Light passing from air to glass
[y]ç Y»ç Eglo_ àYç» Yç øc:Gá_*
%ä_c [y]ç JæEgloYøcTöcf*
 - b) Light passing from water to glass
YçX» Y»ç Eglo_ àYç» Yç øc:Gá_*
%ä_c L_ àJæEgloYøcTöcf
 - c) Light passing from glass to diamond
Eglo_ Y»ç cùç_ àYç» Yç øc:Gá_*
%ä_c EgloJæöcJyäTöYøcTöcf
 - d) Light passing from water to air
YçX» Y»ç [y]ç_ àYç» Yç øc:Gá_*
%ä_c L_ àJæö[y]çTöYøcTöcf*

78. Sunlight takes 8 minutes 20 sec to reach earth. If the whole atmosphere is filled with water, the light

will take ($a^{\mu_w} = \frac{4}{3}$)

æÍ» æ\ç» YÙ3\YççTö8 »X0020 æ\ç\øa]`_çç* ^\æ\çæ- [y\ç%_Yç\é» Y»Y\éçF, æ\éæ\ç» »\YÙ3\YççTöa]`

$$-\zeta \mathbb{G}[\bar{y}] \dots \dots \dots \quad (a^{\mu w} = \frac{4}{3})$$

اَنْ يَعْلَمُ كُلُّ اِنْسَانٍ مَا يَفْعَلُ وَاللَّهُ يَعْلَمُ مَا فِي الْأَرْضِ وَمَا فِي السَّمَاوَاتِ وَاللَّهُ عَلَىٰ كُلِّ شَيْءٍ قَدِيرٌ

$$-\tilde{\mathcal{G}}^*(\mu_w = \frac{4}{3})$$

b) 11 min 6 sec

b) 11 min 8 sec

c) 8 min 10 sec

c) 8 min 10 sec

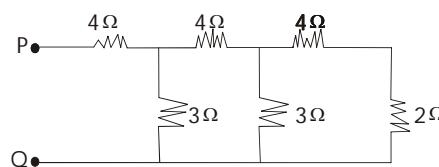
d) 8 min

d) 8 min
8 Jyoti

79. What will be the equivalent resistance between points P and Q in the network shown here ?

What will be the equivalent resistance between points P and Q?

↳ Öj AFCAKA-LCÖNTÖP A[je Q x[WY]AM a]TO i [WEDÖ]?



- a) 4Ω b) 6Ω c) 24Ω d) 32Ω

(17)

84. Which of the following metal can prevent the corrosion of tin ?

Tö » ~~Eoxydationa~~ ~~Wörter~~ » ~~I~~ ~~à~~ ~~dy~~ ~~Eoxydationa~~ ?
X~~oxydationa~~ ~~Wörter~~ ~~I~~ ~~à~~ ~~dy~~ ~~Eoxydationa~~ ?

- a) Zn b) Cu c) Pb d) Ag

85. $Pb(NO_3)_2 \rightarrow 2 PbO + nA + O_2$

What is nA in the given reaction ?

CY » ~~Eoxydationa~~ + ~~Eoxydationa~~ -
= ~~Y~~ ~~Eoxydationa~~ ?

- a) $4NO_2$ b) $2NO_3$ c) $2PbNO_2$ d) NO_2

86. The compound formed during electrolysis of brine is

[~~N~~-X] » ~~V~~ ~~S~~ ~~A~~ ~~S~~ ~~T~~ ~~O~~ ~~à~~ ~~IG~~ ~~GPK~~ ~~C~~*
[~~N~~-~~A~~] » ~~V~~ ~~S~~ ~~A~~ ~~S~~ ~~H~~ ~~à~~ ~~IG~~ ~~GPK~~ ~~C~~*

- a) Cl_2 b) H_2 c) NaOH d) None of these
AO₃ XC / AE₃ OC X

87. N, P, As and Sb react with O_2 to form N_2O_5 , P_4O_{10} , As_4O_{10} and Sb_4O_{10} respectively. Of all these, the most acidic oxide is

N, P, As %>0Sb ~~à~~ O_2 » ~~G~~ ~~T~~ ~~ö~~ ~~[y]~~ ~~ç~~ ~~E~~ ~~y~~ ~~ü~~ N_2O_5 , P_4O_{10} , As_4O_{10} %>0 Sb_4O_{10} %j ç~~Q~~GP~~K~~ E~~ö~~ * +~~r~~ç ~~à~~ ~~T~~ ~~ö~~ ~~T~~ ~~ö~~ ~~E~~ ~~ö~~
%j ç~~Q~~GP~~K~~ E~~ö~~ * +~~c~~ç ~~[y]~~ ~~a~~ ~~[y]~~ ~~a~~ ~~T~~ ~~ö~~ ~~y~~

N, P, As A[y] Sb ~~à~~ O_2 A[y]çç ~~[y]~~ ~~ç~~ ~~E~~ ~~y~~ ~~ü~~ N_2O_5 , P_4O_{10} , As_4O_{10} A[y] Sb_4O_{10} %j ç~~Q~~GP~~K~~ E~~ö~~ * +~~c~~ç ~~[y]~~ ~~a~~ ~~[y]~~ ~~a~~ ~~T~~ ~~ö~~ ~~y~~
%j ç~~Q~~GP~~K~~ E~~ö~~ * +~~c~~ç ~~[y]~~ ~~a~~ ~~[y]~~ ~~a~~ ~~T~~ ~~ö~~ ~~y~~

- a) N_2O_5 b) P_4O_{10} c) As_4O_{10} d) Sb_4O_{10}

88. Rust is a mixture of

[~~C~~] ~~x~~ ~~0~~
[~~M~~] ~~x~~ ~~0~~

- a) FeO and $Fe(OH)_2$ b) FeO and $Fe(OH)_3$ c) Fe_2O_3 and $Fe(OH)_3$ d) Fe_3O_4 and $Fe(OH)_3$
 FeO %>0 / A[y] $Fe(OH)_2$ FeO %>0 / A[y] $Fe(OH)_3$ Fe_2O_3 %>0 A[y] $Fe(OH)_3$ Fe_3O_4 %>0 A[y] $Fe(OH)_3$

89. Which of the following is obtained when methanol vapours mixed with a small amount of air are passed over copper catalyst at high temperature ?

~~X~~ ~~U~~ ~~X~~ » ~~[y]~~ ~~Y~~ ~~E~~ ~~y~~ ~~ü~~ » ~~[y]~~ ~~ç~~ ~~G~~ ~~T~~ ~~ö~~ ~~C~~ ~~E~~ » = ~~J~~ ~~b~~ ~~Ü~~ ~~ç~~ ~~T~~ ~~ö~~ » %~~X~~ ~~H~~ ~~O~~ ~~E~~ = ~~Y~~ ~~ç~~ ~~T~~ ~~ö~~ ~~d~~ ~~y~~ ~~ç~~ ~~V~~ ~~A~~ ~~T~~ » ~~E~~ ~~ç~~ ~~X~~ ~~ç~~ ~~ç~~ ~~G~~ = ~~d~~ ~~Y~~ ~ ~~c~~ ~~ç~~ ~~y~~
~~X~~ ~~U~~ ~~X~~ ~~k~~ ~~[y]~~ ~~Y~~ ~~E~~ ~~y~~ ~~ü~~ ~~ç~~ ~~[y]~~ ~~ç~~ ~~G~~ ~~T~~ ~~ö~~ ~~C~~ ~~E~~ » = ~~J~~ ~~b~~ ~~Ü~~ ~~ç~~ ~~T~~ ~~ö~~ ~~d~~ ~~y~~ ~~ç~~ ~~X~~ ~~H~~ ~~O~~ ~~E~~ = ~~Y~~ ~~ç~~ ~~T~~ ~~ö~~ ~~d~~ ~~y~~ ~~ç~~ ~~V~~ ~~A~~ ~~T~~ » ~~E~~ ~~ç~~ ~~X~~ ~~ç~~ ~~ç~~ ~~G~~ = ~~d~~ ~~Y~~ ~ ~~c~~ ~~ç~~ ~~y~~

- a) Methanol
~~X~~ ~~U~~ ~~X~~
b) Methanoic acid
~~X~~ ~~U~~ ~~X~~ ~~E~~ ~~O~~ ~~A~~ ~~E~~ ~~ö~~ / ~~A~~ ~~a~~ ~~ö~~
c) Methane
~~X~~ ~~U~~ ~~X~~
d) Ethanol
~~+U~~ ~~X~~

(18)

90. The ores of an element 'X' generally found on earth crust and its oxide give strong alkalis. Then 'X' belongs to
x A[é]j[i_ ^ç] %Eö adySäTö\ßYföToYçç^ç %çÖ+íç %j çæöGööIö=dY~ Eöç* a[é]j[i_ äç] %çççç*
x AEöba[j_i_ ^ççç] %EöyadyljSTö\ßYföYçç^ç A[é]+ççç%j çæöGööIö=dY~ Eöç Tüçä_ x a[é]i_ öç %çççç
- a) I group
YÜ] [çü b) II group
YTö] [çü c) III group
TTö] [çü d) IV group
STö] [çü
91. The general formula of carboxylic acids is
Eöyç x EöA*Kö adyS aeaEööcç
Eöyç x EöA*aöyadyljS aeaEööc+a_
- a) $C_nH_{2n+1}OH$ b) $C_nH_{2n}O$ c) $C_nH_{2n}O_2$ d) C_nH_{2n+2}
92. Bile contains
Ywø>aTö %çç*
Ywølyá %çç*
- a) Protein digesting enzymes
YöX YöX Eöy=dåMö
YöX YöX Eöy=dåMö
- b) Carbohydrate digesting enzymes
Eöyç-aööYöX Eöy=dåMö
Eöyç-aööYöX Eöy=dåMö
- c) Fat splitting enzymes
Jöy{y}öLXEöy=dåMö
Jöy{y}öLXEöy=dåMö
- d) All of these
%ççç æööç
a[yEööç
93. O₂ evolved in photo synthesis is
aç_Eöaea ASTö O₂=dY~ çç*
aç_Eöaea åS O₂=dY~ çç*
- a) from water
YçX» Y»ç
L_ çæTö b) from CO₂
CO₂ » Y»ç
CO₂ çæTö
- c) from H₂O and CO₂
YçY%çÖ CO₂ » Y»ç
L_ A[é] CO₂ çæTö d) from air
YçYç Y»ç
L_ çæTö
94. The chief function of lymph nodes in mammalian body is to
OñYçYçYçYç _>aEçTö]Eí Eöç aç
OñYçYçYçYç _>aEçTö]Eí Eöç _>ç _*
- a) destroy the old red blood cells.
YçS å çæTö»NþEöSEççY»Eölyea Eöç
YçS å çæTö»NþEöSEççY»Eölyea Eöç
- b) Produce WBCs
å Þö»NþEöSEç=dY~ Eöç
å Þö»NþEöSEç=dY~ Eöç
- c) Collect and destroy pathogens.
[yLççæGB=%çÖVlyea Eöç
[yLççæGB=A[é]Vlyea Eöç
- d) Produce a hormone.
çç]X=dY~ Eöç
çç]S=dY~ Eöç

(19)

95. Which of the following is not a ductless gland ?

Tö » EöX»WYX_W{cX GñXcf

XñyæEöX»W{cX GñXcf

a) Adrenal

AñX
%VñS

b) Thyroid

Uç»+Qö
Uç[ç]Qö

c) Pituitary

XñQñQñY
XñQñQñY

d) Liver

^Eñö
^Eñö

96. Which of the following protects the brain from shocks ?

Tö » EöXññ%4 » EñEñ%ñHñö Y»ç » IñEñ ?

XñyæEöX»b » EñEñ%ñHñöc+añö[yñ] ?

a) Cranium

åñXñd

b) Cerebrospinal fluid

åñ»[P&ç-Xç »a/ åñ»[P&ç-Xç [y

c) Duramater

Öñ'ñTö/ OñyäOñy

d) Arachnoid membrane

%EñX+Qö%çñS/ %EñX+Qö%çñS

97. Which of the following are non-essential parts of flowers ?

Tö » EöXññ%e` Zö » [yñY%Töç4 iEdñ Xcf ?

XñyæEöX»b%e` Zö » [yLXì %Töç4 iEdñ Xñ? :

a) Calyx and gynoecium

[yññ%çñG\ññ
[yññA[çé G\ññ

b) Calyx and Corolla

[yññ%çñYçë:
[yññA[çé Yçë:ñ

c) Corolla and androecium

Yçë:çñYçë:ñ
Yçë:çñA[çé Yçë:ñ

d) Androecium and gynoecium

Yçë:çñG\ññ
Yçë:çñA[çé G\ññ

98. Darwin felt that individual variations within a population arose -

Qö=+X»]ñTöYñLçTö [yññpa]xñö]dL TöYññS cf*

Qñy=+a(y]ñTöYñLçTö [yññpa]xñöYññS cf*

a) By design

GñX» Yçç
GñX(y+çç

b) Spontaneously

swt: sññt\çñy
swt: sññt\çñy

c) As a result of need

YññdLX açññlù
YññdLX açññlù

d) At a predictable rate

%XñçXñEñçëTö
%XñçXñEñçëy

99. Ozone layer is destroyed due to

%'LX ññ» %ñññ» EññS

%'LX ñññ%[yññ[yññEññS

a) CFC

b) CO₂

c) SO₂

d) NH₃

(20)

100. In which of the following organ haemoglobin is broken down into bilirubin and biliverdin ?

Tö » Eç Xanı %eGTöe;] 'GÄyX, {ý » Çy %O{ík [p>0Xé_ » ÖdïW cF ?
XWdyäEöX%at x;] 'GÄyX, {ý [p>A[ye {ík [y]ÖK [y]dïWcF ?

a) Intestine
I Çib-

b) Lung
cÇçZççZççZçç

c) Liver
^EM

d) Spleen
%GÄt

XXX THE END XXX