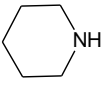
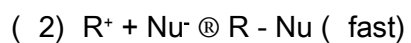


Class XII GSO Sample paper

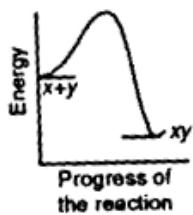
1. ORANGE : YBZMQQ :: ? : QBZOOO
a. PAPAYA
b. GRAPES
c. BANANA
d. QEHMDF
2. Choose the odd numeral group in the following
a. 62 - 4
b. 1 - 1
c. 27 - 3
d. 8 - 2
3. In a certain code language C = 3, CAN = 18, then MEN = ?
a. 32
b. 125
c. 12
d. 320
4. There are two boys Aman and Rajesh. Aman is the son of Rajesh's mother's father. Then Aman is the _ _ of Rajesh.
a. Maternal Uncle
b. Maternal cousin
c. Maternal nephew
d. Brother -in- law
5. Gagan is standing at the centre of a circular field. She goes up to the North and reach at a point on the boundary of circle. She turns to the right and walks a distance of one-fourth of the boundary along the circular field. Finally she walks along the diameter from one end to another end. How far is she from the starting point if radius of the field is R ?
a. 2R
b. 3R
c. 2.7R
d. R
6. An electron moves a distance 6.0 cm, when accelerated from rest by an electric field of strength $2 \times 10^4 \text{ NC}^{-1}$, then time travelled is
a. $5.8 \times 10^9 \text{ s}$
b. $15.8 \times 10^9 \text{ s}$
c. $1.8 \times 10^9 \text{ s}$
d. $5.0 \times 10^9 \text{ s}$
7. The speed of light in the medium whose critical angle is 45° is
a. $2.18 \times 10^8 \text{ m/s}$
b. $2.12 \times 10^8 \text{ m/s}$
c. $12.05 \times 10^8 \text{ m/s}$
d. $12.12 \times 10^8 \text{ m/s}$

8. The amount of energy released per fusion in U-235 is:
- 199 MeV
 - 201 MeV
 - 200 MeV
 - 202 MeV
9. Cyclic photophosphorylation is confined to
- Photosystem I
 - Photosystem II
 - Both of these
 - None of these
10. The pyramid of number in a grassland ecosystem is
- Linear
 - Upright
 - Irregular
 - Inverted
11. Isabgol is a product of
- Strychnos nux-vomica
 - Plantago ovata
 - Both (a) and (b)
 - None of these
12. A mutant strain of T4--Bacteriophage, R-II, fails to lyse the E-Coli but when two strains R-IIX and R-IIY are mixed then they lyse the E. Coli. What may be the possible reason ?
- bacteriophage transforms in wild
 - it is not mutated
 - both strains have similar cistrons
 - both strains have different cistrons.
13. Bragg's law is given by the equation :
- $n \lambda = 2\theta \sin \theta$
 - $n \lambda = 2d \sin \theta$
 - $2n \lambda = d \sin \theta$
 - $n \frac{\theta}{2} = \frac{d}{2} \sin \lambda$
14. In piperidine, , the hybrid state assumed by N is:
- sp
 - sp²
 - sp³
 - dsp²

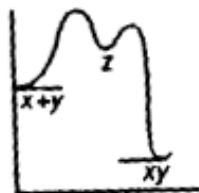
15. The following reaction is accompanied by liberation of heat and occurs in two steps as follows :



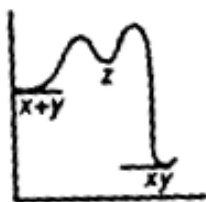
The progress of the reaction is best represented by :



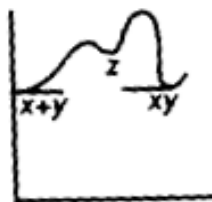
a.



b.



c.



d.