ANDHRA PRADESH COMMON EXAMINATIONS
SUMMATIVE ASSESSMENT-I - SEPTEMBER-2016
GENERAL SCIENCE , Paper - I
(Physical Sciences)
(English Version)

## Class-09 - Principles of Evaluation - PART-A \&B

| Q.No | Points for Evaluation | Marks allotted | Total <br> Marks |
| :---: | :---: | :---: | :---: |
| 1. | $273+273=546 \mathrm{~K}$ <br> (any related point also suitable. Only one point is needed) | 1 | 1 |
| 2. | She moves with constant velocity <br> (any related point also suitable. Only one point is needed) | 1 | 1 |
| 3. | F force applied on A by B <br> In South direction. <br> (OR) <br> -F force applied on A by B <br> (any related point also suitable. Only one or two points are needed) | $2 x^{1 / 2}$ <br> 1 | 1 |
| 4. | Sublimation (or) Heating <br> (any related point also suitable. Only one point is needed) | 1 | 1 |
| 5. | (i) Smoke from Dhoop stick spread out all the room. <br> (ii) The Horlicks in milk diffuses over all the milk. <br> (iii) The smell from scent is due to diffusion <br> (iv) The gas filled in soda diffuses in water. <br> (any related points also suitable. Only two points are needed) | 2x1 | 2 |
| 6. | (i) If displacement is zero <br> (ii) If the body is in rest position <br> (iii) If the travelling body reaches to the origin at last. <br> (iv) Throw a stone up and catch. The average velocity is zero <br> (any related points also suitable. Only two points are needed) | 2x1 | 2 |
| 7. | The impact of force experienced by the bus and fly are same. | 1 |  |
|  | As per Newton's third law of motion force and anti forces are equal and in opposite direction <br> (any related point also suitable. Only two points are needed) | 1 | 2 |
| 8. | Newton's first law | 1 |  |
|  | Until external net force acting on a body, the continues its state of motion. (or) <br> The body still remains in its state of rest or uniform motion unless net force acts on it. <br> (any related point also suitable. Only two points are needed) | 1 | 2 |
| 9. | Immiscibility (or) Difference in densities | 1 |  |
|  | Separating funnel (or) Burette (or) Extraction pump <br> (any related point also suitable. Only two points are needed) | 1 | 2 |
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\begin{tabular}{|c|c|c|c|}
\hline 11A. \& \begin{tabular}{l}
(i) Take the glass tube. \\
(ii) Take two pieces of cotton. \\
(iii) Soak one in hydrochloric acid and other in Ammonia solution. \\
(iv) Keep the cotton wools at each ends of the glass tube \\
(v) Close the ends of the tube with rubber corks. \\
(vi) After few seconds a white colour gas ring is formed \\
(vii) Measure the distance of the white gas ring from each wools. \\
(viii) Observed the speed of diffusion of two gases. \\
(ix) Ammonia gas diffuses quickly and Hydrogen chloride gas diffuses slowly. \\
(any related point also suitable. No need of number of points. Concept should be clear in minimum four points.)
\end{tabular} \& * \& 4 \\
\hline \& (OR) \& \& \\
\hline 11B. \& \begin{tabular}{l}
(i) Take a long plastic tube of \(2 m\) length \\
(ii) Place books under tube at one edge like an inclined plane. \\
(iii) Keep a steel plate at the other edge. \\
(iv) Hold a marble at top edge of tube \\
(v) Start the stop clock simultaneously. (Distance (s) = 200 cm ) \\
(vi) On marble hits the plate, stop the stop clock. \\
(vii) Note down the time taken as \(t_{1}\). \\
(viii) Repeat the same procedure two times and find \(t_{2}\) and \(t_{3}\). \\
(ix) Find the average time \(\frac{\left(t_{1}+t_{2}+t_{3}\right)}{3}\). \\
(x) Find acceleration \(\mathrm{a}=\frac{2 s}{t^{2}}\). \\
(any related point also suitable. No need of number of points. \\
Concept should be clear in minimum four points.) \\
(OR) \\
(i) Take a long plastic tube of \(2 m\) length and cut it in half along the length of the tube to make like a track. \\
(ii) Mark the readings on the track from ' 0 ' to 200 cm with a marker pen. \\
(iii) Place the books under the tube at one edge such that it looks like an inclined plane. \\
(iv) Keep a steel plate at the other edge. \\
(v) Hold a marble at certain point say 40 cm on the track and release the marble. \\
(vi) Start the stop clock simultaneously. (Distance (s) \(=40 \mathrm{~cm}\) ) \\
(vii) The marble hits the plate and produced sound on reaching the ground. Then stop the stop clock. \\
(viii) Note down the time taken by the marble to travel 40 cm on inclined plane as \(t_{1}\). \\
(ix) Repeat the same procedure two times and find \(\mathrm{t}_{2}\) and \(\mathrm{t}_{3}\). \\
(x) Note down the readings and find the average time \(\frac{\left(t_{1}+t_{2}+t_{3}\right)}{3}\). \\
(xi) Find acceleration \(\mathrm{a}=\frac{2 s}{t^{2}}\). \\
(any related point also suitable. No need of number of points. Concept should be clear in minimum four points.)
\end{tabular} \& * \& 4

4 <br>
\hline
\end{tabular}

| 12A. | (a) Uniform motion (or) Constant velocity (or) non acceleration | (b) Velocity at 10 Seconds $=\frac{d}{t}=\frac{20}{10}=2 \mathrm{~m} / \mathrm{s}$ <br> As it is uniform motion, velocity at $5 \mathrm{~seconds}=2 \mathrm{~m} / \mathrm{s}$ | 1 |
| :--- | :--- | :---: | :---: |

13B.


Fractional distillation
(any diagram related is sufficient. Meaningful diagram is enough.
As this question is given under AS-3. Consider the diagram only.)

## Section - IV

| S. No | Ans. | S. No | Ans. | S. No | Ans. | S. No | Ans. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 14 | D | 19 | D | 24 | B/D | 29 | A |
| 15 | B | 20 | D | 25 | A/B/D | 30 | C |
| 16 | D | 21 | C | 26 | B | 31 | B |
| 17 | A | 22 | B | 27 | A | 32 | C |
| 18 | A | 23 | C | 28 | A | 33 | B |

Note : * means allot full marks. Each question carries $1 / 2$ mark.

