

ANDHRA PRADESH COMMON EXAMINATIONS
SUMMATIVE ASSESSMENT-II - JANUARY-2017
GENERAL SCIENCE , Paper – I
 (Physical Sciences)
 (English Version)

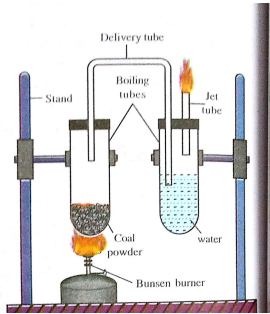

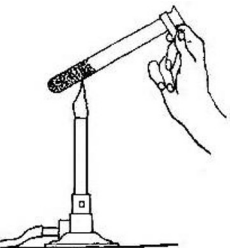
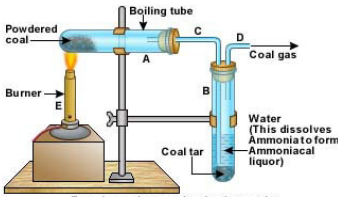
Class-08 - Principles of Evaluation - PART-A &B

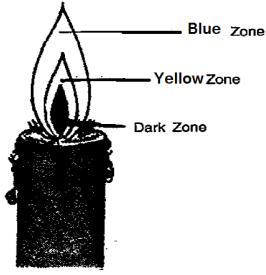
Q.No	Points for Evaluation	Marks allotted	Total Marks																
1.	Gravitational force (any related point also suitable. Only two points are needed)	*	1																
2.	They do not react with air. (Or) They do not participate in (chemical) reactions. (Or) They have less reactivity. (any related point also suitable. Only one point is needed)	1	1																
3.	Sound produced due to vibration of papers (Or) Vibrations produce sound. (any related point also suitable. Only one point is needed)	1	1																
4.	(i) in the manufacturing of detergents (ii) in the manufacturing of synthetic fibres (iii) in the manufacturing of medicines (iv) in the manufacturing of cosmetics (v) in the manufacturing of tyres (vi) in the manufacturing of fertilizers (any related points also suitable. Only two points are needed)	2x½	1																
5.	(i) Static friction Ex: If we kept a book on table, The friction between them (ii) Sliding friction Ex: If we kick a brick on the floor, The friction between them (iii) Rolling friction Ex: If we roll a marble on floor, The friction between them (any related points also suitable. Only two points are needed with one suitable example for each)	2x1	2																
6.	<table border="1"> <thead> <tr> <th></th><th>Contact force</th><th></th><th>Force at a distance</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Force between two objects which are in contact</td><td>1.</td><td>Force between two objects which are not in contact</td></tr> <tr> <td>2.</td><td>Ex: Muscular force, Tension force, Normal force, Frictional force</td><td>2.</td><td>Ex: Gravitational force, Magnetic force, Electro static force</td></tr> <tr> <td>3.</td><td>Force between hand and pen while writing</td><td>3.</td><td>Force between iron nails and magnet</td></tr> </tbody> </table> (any related points also suitable. Only two points are needed with one suitable example for each)		Contact force		Force at a distance	1.	Force between two objects which are in contact	1.	Force between two objects which are not in contact	2.	Ex: Muscular force, Tension force, Normal force, Frictional force	2.	Ex: Gravitational force, Magnetic force, Electro static force	3.	Force between hand and pen while writing	3.	Force between iron nails and magnet	2x1	2
	Contact force		Force at a distance																
1.	Force between two objects which are in contact	1.	Force between two objects which are not in contact																
2.	Ex: Muscular force, Tension force, Normal force, Frictional force	2.	Ex: Gravitational force, Magnetic force, Electro static force																
3.	Force between hand and pen while writing	3.	Force between iron nails and magnet																

NAGA MURTHY- 9441786635
 Contact at : nagamurthysir@gmail.com
 Visit at : ignitephysics.weebly.com

7.	(i) How it is produced sound with out vibration? (ii) Is it possible to produce sound with out vibration? (iii) Which part produce sound? (iv) Is the vibration body invisible? (any related points also suitable. Only two points are needed)		2x1	2									
8.	<table><tr><td>Rapid combustible substances</td><td>Spontaneous combustible substances</td></tr><tr><td>Petrol Spirit</td><td>Sodium Phosphorous</td></tr><tr><td colspan="2">(Or) Rapid combustible substances : Petrol, Spirit Spontaneous combustible substances : Sodium, Phosphorous (any related method also suitable. Classification is needed.)</td></tr></table>	Rapid combustible substances	Spontaneous combustible substances	Petrol Spirit	Sodium Phosphorous	(Or) Rapid combustible substances : Petrol, Spirit Spontaneous combustible substances : Sodium, Phosphorous (any related method also suitable. Classification is needed.)		4x½	2				
Rapid combustible substances	Spontaneous combustible substances												
Petrol Spirit	Sodium Phosphorous												
(Or) Rapid combustible substances : Petrol, Spirit Spontaneous combustible substances : Sodium, Phosphorous (any related method also suitable. Classification is needed.)													
9.	<p>Fossil fuels like coal, Petroleum, CNG are non renewable energy resources. Also the fuels like Petrol, Diesel causes air pollution. In this situation, we have to look for alternative energy resources like solar energy, wind energy. Because they are Pollution free and renewable energy resources.</p> <p>(Or)</p> <table><tr><td>Petroleum energy Resources</td><td>Alternative energy resources</td></tr><tr><td>Causes air pollution</td><td>Do not pollute air</td></tr><tr><td>Non renewable sources</td><td>Renewable sources</td></tr><tr><td colspan="2">So we have to look for alternative energy resources like solar energy, wind energy.</td></tr></table> <p>(any related method also suitable. Two points are needed.)</p>	Petroleum energy Resources	Alternative energy resources	Causes air pollution	Do not pollute air	Non renewable sources	Renewable sources	So we have to look for alternative energy resources like solar energy, wind energy.		2x1	2		
Petroleum energy Resources	Alternative energy resources												
Causes air pollution	Do not pollute air												
Non renewable sources	Renewable sources												
So we have to look for alternative energy resources like solar energy, wind energy.													
10A.	<table><tr><td>Musical instruments</td><td>How they produced sound?</td></tr><tr><td>Veena</td><td>It produced sound on vibrating the stretched strings, which are tightly fitted.</td></tr><tr><td>Flute</td><td>It produced sound on vibrating the air column in it by blowing air.</td></tr><tr><td>Tabala</td><td>It produced sound on vibrating the stretched membrane , which is tightly fixed</td></tr><tr><td>Violin</td><td>It produced sound on vibrating the stretched strings, which are tightly fitted.</td></tr></table> <p>(Or)</p> <p>(i) Veena produced sound on vibrating the stretched strings, which are tightly fitted.</p> <p>(ii) Flute produced sound on vibrating the air column in it by blowing air.</p> <p>(iii) Tabala produced sound on vibrating the stretched membrane , which is tightly fixed</p> <p>(iv) Violin produced sound on vibrating the stretched strings, which are tightly fitted.</p> <p>(any related method also suitable. Any four points are needed.)</p>	Musical instruments	How they produced sound?	Veena	It produced sound on vibrating the stretched strings, which are tightly fitted.	Flute	It produced sound on vibrating the air column in it by blowing air.	Tabala	It produced sound on vibrating the stretched membrane , which is tightly fixed	Violin	It produced sound on vibrating the stretched strings, which are tightly fitted.	4x1	4
Musical instruments	How they produced sound?												
Veena	It produced sound on vibrating the stretched strings, which are tightly fitted.												
Flute	It produced sound on vibrating the air column in it by blowing air.												
Tabala	It produced sound on vibrating the stretched membrane , which is tightly fixed												
Violin	It produced sound on vibrating the stretched strings, which are tightly fitted.												

[illegible]

12B.	<p><u>Sound has energy :</u></p> <p>(i) Keep a vibrating cell phone in a plastic glass</p> <p>(ii) Close the glass with a rubber strip and tie with a thread.</p> <p>(iii) Place some sugar or sand crystals on the strip</p> <p>(iv) We observe the movement of crystals</p> <p>(v) If there is no vibrating cell phone in the glass, the crystals do not move.</p> <p>(vi) This indicates that sound has energy.</p> <p>(any related answer also suitable. No need of number of points.)</p>	*	4	
	<p>(OR)</p> <p><u>Sound has energy :</u></p> <p>(i) Keep some sugar crystals on the floor.</p> <p>(ii) Keep some crystals on the speaker box while playing music.</p> <p>(iii) We observe the movement of crystals on speaker box</p> <p>(iv) This indicates that sound has energy.</p> <p>(any related answer also suitable. No need of number of points.)</p>	*		
13A.	<p>(i) Materials required : Boiling tubes-2, Coal powder, Water, Delivery tube, Jet tube, Stands-2, Water, Spirit lamp, Match box</p> 	<p>(i) Materials required : Test tube, Test tube Holder, Coal powder, Spirit lamp, Match box</p> 	1	4
	<p>(OR)</p> <p>(i) Materials required : Test tube, Test tube Holder, Coal powder, Bunsen burner, Match box</p> 	<p>(i) Materials required : Boiling tubes-2, Coal powder, Water, Delivery tube, Jet tube, Stands-2, Water, Bunsen burner, Match box</p> 	3	
<p>(Note: Any related diagram is suitable. If parts indicated in the diagram consider them as list of material.)</p>				
<p>NAGA MURTHY- 9441786635 Contact at : nagamurthysir@gmail.com Visit at : ignitephysics.weebly.com</p>				

13B.	 <p>(i) Incomplete combustion takes place in black zone or dark zone or innermost zone.</p>	3	4
		1	

Section - IV

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

Note : * means allot full marks. Each question carries ½ mark.

NAGA MURTHY- 9441786635
 Contact at : nagamurthysir@gmail.com
 Visit at : ignitephysics.weebly.com