ANDHRA PRADESH COMMON EXAMINATIONS

SUMMATIVE ASSESSMENT-III - APRIL-2016

GENERAL SCIENCE , Paper – I

(Physical Sciences)

(English Version)

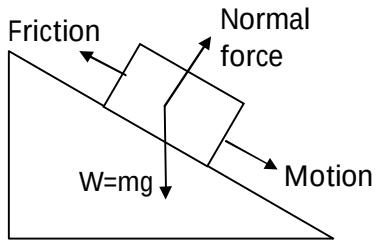
Class-08 - Principles of Evaluation - PART-A &B

Q.No	Points for Evaluation	Marks allotted	Total Marks
1.	Sound waves need material medium for propagation (or) There are no molecules in vacuum that transmit sound energy (or) Vacuum contains no material molecules. **(any related answer also suitable)**	1	1
2.	Methods to avoid corrosion of iron : (i) Chrome plating (ii) Nickel coating (iii) Red oxide coating (iv) Painting (v) Oiling (vi) Greasing (vii) Making alloys **(any related answer also suitable. Only two points are sufficient)**	Any two points 2x½	1
3.	Steel rod is a conductor of electricity. So the acquired charge passes through our body. So steel does not attract paper pieces even rubbed with silk. (or) Steel rod attracts paper pieces after rubbed with silk cloth. (We do not touch it with our body.) **(any related answer also suitable)**	1	1
4.	(The given resin code not contains a number – No answer) **(Allot 1 mark for each student for this question – add mark)**	1	1
5.	(Multiple forces acts on every body. How can the student classify the objects in to field forces and contact forces) (Is things called as forces?) Ex: A hanging wall clock : Friction, Tension, Normal (Contact forces) ; Gravitational (Field force) **(Allot 2 mark for each student for this question – add mark)**	2	2
6.	If we burn a paper cup with water, it does not burn. Not reach ignition point. Because the heat received by the paper cup transferred to water. (or) If we burn a paper cup with water, it does not burn. Because water prevents the paper cup to reach its ignition point. **(any related answer also suitable even it contains only second sentence)**	2x1	2
7.	(i) Is the given material has shining? (lustrous) (ii) Is the given material produce sound? (Sonority) (iii) Can the material stretched as thin layers? (Malleability) (iv) Can the material made into fine wires? (Ductility) (v) Is the material conduct electricity? (Electric conductivity) (vi) Is the material conduct heat ? (Heat conductivity) (vii) Is the material produce acids or bases? **(any related answer also suitable. Only four points are sufficient)**	Any four points 4x½	2

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

8.	I think there are no natural calamities occur in our area, in my experience. (or) The natural calamity occur in our area is …….. (Floods, Earth quakes, drought, Tsunami,…… any one) I do …….. (Precautions we need to take …… any two) **(any related answer also suitable.)**	2 (Or) 2x1	2
9.	(i) Intensity of sound (ii) loss of hearing (or) sleeplessness (or) hyper tension (or) B.P. (or) Heart diseases (or) **(any related two points are sufficient)**	2x1	2
10A.	**a**) Push the tip of a pencil on our palm. Similarly push the other end of pencil on our palm. We feel more pain when push the tip of pencil. This means if area of contact is less, then the effect of force is more. **b**) Pressure = $\frac{Force}{Area}$ The units of pressure = Newton/m^2 (or) Pascal (or) dyne/cm^2 **(any related example for (a) is acceptable.)**	2 2x1	4
	OR		
10B.	**Uses of man made satellites:** (i) Information transmission (ii) Transmitting TV, radio, Internet signals (iii) working of RADARs (iv) Forecasting weather reports (v) Identifying mines under earth (vi) Estimate the area of forests and deserts (vii) The measure the depth of oceans (viii) Mapping of different areas (ix) To observe celestial bodies (x) in aviation and **Indian satellites** : (i) INSAT (ii) IRS (iii) Kalpana-1 (iv) EDUSAT (v) Chandrayaan (vi) MOM (Mangalyaan) (vii) Aryabhatta (viii) Bhaskara (ix) Rohini (x) GSAT (xi) OceanSAT (xii) HAMSAT (xiii) CARTOSAT (xiv) ANUSAT (xv) AstroSAT (xvi) YouthSAT **(any related answer also suitable)**	Any two points 2x1 Any four names 4x½	4
11A.	**Utilisation of alternative energy sources in daily life:** (i) Solar energy is used in solar cookers (ii) Solar energy is used in solar heater (iii) Wind energy is used in electricity production (iv) Biogas is used to cook food (v) Biogas is useful to produce electricity (vi) Solar energy is used in solar motors/cars/bikes **(any related answer also suitable. Four points are sufficient.)**	4x1	4

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

	(OR)		
11B.	Importance of Oxygen: (i) All living beings need oxygen in air. (ii) With out oxygen no organism or human beings can alive. (ii) Oxygen is essential for burning of substances. (iv) With out oxygen no fuel can burn. (v) Most of the minerals occurs in the form of oxides. (vi) With out oxygen no metal can found in nature. (Except some) **(any related answer also suitable . Four points are sufficient.)**	4x1	4
12A.	**Activity:** Take Copper sulphate solution in a beaker. Attach a copper plate and iron key to the end of a conducting wire separately. Suspend them in the solution. Take care that iron key and copper plate should not touch with each other. The free ends of wires should connect to a battery. **Observations:** (i) Copper coated on the iron key. (ii) The blue colour of copper sulphate gradually changes/dis appear. **(any related answer also suitable .)**	2 2	4
	(OR)		
12B.	**Activity:** Hold the given substance with Tongs, heat it on the burner. **Thermo plastics:** If we heat the substances, they will melt or bent. i) Tooth brush melts on heating ii) Plastic comb melts on heating **Thermosetting plastics:** If we heat the substances, they will not melt or bent. i) Electric switch does not melt on heating ii) Cooker handle does not melt on heating **(any related answer also suitable .)**	1 ½ 2x½ ½ 2x½	4
13A.	**a) FBD:**  **b)** If the sliding surface is smooth, friction does not acting. **(any diagram related is sufficient. Meaningful diagram is enough.)** (Neatness is not necessary , rough diagram is sufficient.)	3 1	4
	(OR)		
13B.	Reaction of Acid on Zinc dust :  i) Hydrogen ii) The gas puts off a burning stick with pop sound. **(any diagram related is sufficient. Meaningful diagram is enough.)** (Neatness is not important as this question is not given to test artists skill.)	2 2	4

PART - B

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

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

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