

ADITYA BIRLA PUBLIC SCHOOL, KOVAYA**SUMMATIVE ASSESSMENT-II : 2013-14****Roll No.****CLASS - VIII****Date -****SCIENCE****Time- 3: 00 Hours****Max. Marks – 90****GENERAL INSTRUCTIONS**

- *All questions are compulsory.*
- *Question nos. 1 to 3 are very short answer questions and carry 1 mark each.*
- *Question nos. 4 to 7 are short answer questions and carry 2 marks each.*
- *Question nos. 8 to 19 are also short answer questions and carry 3 marks each.*
- *Question nos. 20 to 24 are long answer questions and carry 5 marks each.*
- *Question nos. 25 to 42 are objective type questions and carry 1 mark each.*

1. An inflated balloon was pressed against a wall after it has been rubbed with a piece of cloth. It was found that balloon sticks to the wall. What force might be responsible for the attraction between balloon and wall?
2. What is electroplating?
3. State the laws of reflection.
4. What changes in the body take place at puberty? List any four.
5. Define pressure and give its SI unit.
6. Explain why the sliding friction is less than static friction.
7. Pendulum A makes 28 oscillations in five seconds and Pendulum B makes 20 oscillations in three seconds. Which has a higher frequency? Express the frequency of each pendulum in hertz.
8. Write a note on sex determination in the unborn Baby.
9. Which forces are known as noncontact forces? Name any two. On what factors does the effect of force depend?
10. Show with example that friction is both a friend and a foe.
11. You would know about the accident that happened to astronaut Kalpana Chawla. What was the reason behind that?

OR

Why is it easier to move a box when it is already in motion? Explain with proper diagram.

12. Sketch larynx and explain its function.

13. Lightning and thunder take place in the sky at the same time and at the same distance from us. Lightning is seen earlier and thunder is heard later. Explain, why? In rainy season thunder is heard after 6 seconds of lightning; calculate the approximate height of the cloud.
14. A child staying in a coastal region tests the drinking water and also the seawater with his tester. He finds that the compass needle deflects more in case of seawater. Explain with reason.
15. Which scale is used to measure the destructive energy of an earthquake? An earthquake measures 3 on this scale. Would it be recorded by a seismograph? Is it will cause much damage?
16. Which instrument is used to detect a charged body? With the help of a label diagram explain its working.
17. Draw a labeled sketch of human eye.
18. What is a constellation? Name any two constellations and sketch them.
19. What do you mean by green house effect? Explain in brief.
20. What is the function of testosterone and estrogen hormone? Show the endocrine glands in human body.
21. (i) What effect does the current produce when it flows through a conducting solution? (ii) How the magnetic effect of current can be used to detect current? Explain with circuit diagram.
22. What happens when light falls on a plane mirror? Write the characteristic of image formed by a plane mirror. What is the angle of incidence of a ray if the reflected ray is at an angle of 112° to the incident ray?
23. What is the solar system? What are its constituents? Sketch and label the solar system
24. Explain the circumstances leading to acid rain. How does the acid rain affect us? What are the threat to the beauty of the Taj Mahal? Give a brief report.

Choose the correct option in the following questions:

25. How many pairs of chromosomes are found in nuclei of their cells?

(a) 22 pairs	(b) 23 pairs	(c) 24 pairs	(d) 25 pairs.
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26. Adolescence is the period of

(a) 5 to 10 years	(b) 11 to 19 years	(c) 22 to 28 years	(d) 30 to 40 years.
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27. A wooden piece 5 N in weight and $5\text{ cm} \times 3\text{ cm} \times 2\text{ cm}$ in size lies on $5\text{ cm} \times 2\text{ cm}$ face. The pressure exerted by it in N per cm^2 is

(a) 150	(b) 50	(c) 0.5	(d) 15.
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28. One kilogram weight is-

(a) 98 N	(b) 9.8 N	(c) 0.98 N	(d) 0.098 N.
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29. Four children were asked to arrange forces due to rolling, static and sliding friction in a decreasing order. Their arrangements are given below. Choose the correct arrangement,
- (a) rolling, static, sliding (b) rolling, sliding, static
 (c) static, sliding, rolling (d) sliding, static, rolling.
30. Mahika runs her toy car on dry marble floor, wet marble floor, newspaper and towel spread on the floor. The force of friction acting on the car on the different surfaces in increasing order will be
- (a) wet marble floor, dry marble floor, newspaper and towel.
 (b) newspaper, towel, dry marble floor and wet marble floor.
 (c) towel, newspaper, dry marble floor and wet marble floor
 (d) wet marble floor, dry marble floor, towel and newspaper.
31. Whose voice is likely to have minimum frequency?
- (a) Baby girl (b) Baby boy (c) A man (d) A women.
32. The maximum displacement of vibrating body from its mean position is called:
- (a) wavelength (b) frequency (c) Amplitude (d) density.
33. An instrument used to measure the current flowing through a circuit is called
- (a) voltameter (b) voltmeter (c) Ammeter (d) galvanometer.
34. Which instrument is used to measure the earthquake?
- (a) Richter (b) Seismograph (c) Polygraph (d) None of these.
35. When two bodies are rubbed against each other, they acquire
- (a) equal and like charges (b) equal and unlike charges
 (c) unequal and like charges (d) unequal and unlike charges.
36. Tsunami means
- (a) earthquake under the sea (b) earthquake (c) floods (d) eruption of volcano in a sea.
37. Amber is a

- (a) metal (b) rubber (c) resin (d) sugar.

38. The defect due to which a person is not able to see the distant objects clearly

- (a) Myopia (b) Cornea (c) Cataract (d) Hypermetropia.

39. Which unit is used to measure astronomical distances?

- (a) Kilometer (b) Sound year (c) Light year (d) Centur.

40. Our galaxy is known as

- (a) earth galaxy (b) sun galaxy (c) Milky Way (d) Constellation.

41. Bhopal tragedy was caused due to

- (a) air pollution (b) emission of poisonous gas
(c) water pollution (d) leakage of poisonous gas.

42. Which of the following is a non-biodegradable pollutant?

- (a) Sulphur dioxide (b) DDT (c) Nitrogen dioxide (d) Hydrogen dioxide.
