

Name.....

Batch..... Roll No.

BRILLIANT SCIENCE OLYMPIAD

MOCK TEST

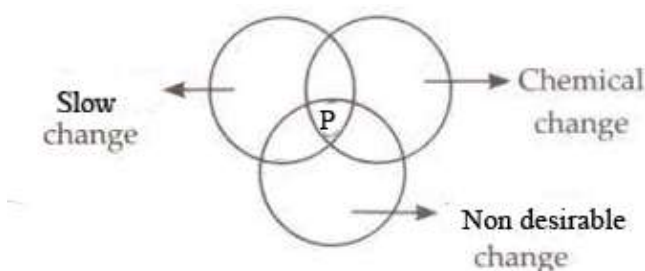
PHYSICS + CHEMISTRY + BIOLOGY + MATHEMATICS

Class: VII

PHYSICS

1. What is the SI unit of speed ?
A) kilometer/hour B) meter/second C) km/minutes D) second/meter
2. body travels an equal distance in equal intervals of time. Then
A) body change its velocity continuously B) Body is in non-uniform velocity
C) Body is in uniform velocity D) Body is in accelerated motion
3. Find the distance covered by the car if it moves at speed of 50 km/h in 30 minutes
A) 10 km B) 15 km C) 20 km D) 25 km
4. The chemical effect of electric current is is used in
A) Electromagnet B) Electroplating C) Electric fuse D) Iron Box
5. The primary purpose of the plastic or rubber coating on electric wires is to:
A) Enhance their aesthetic appeal
B) Increase their electrical conductivity
C) Provide insulation to prevent electric shocks
D) Reduce their overall weight
6. S.I unit of Charge is
A) Ampere B) Volt C) Newton D) Coulomb
7. Things that do not allow light to pass through them are known as
A) opaque B) translucent C) transparent D) luminous
8. The principal focus of a concave lens is:
A) Real B) Virtual
C) Both real and virtual D) Depends on object position
9. If the angle of incidence of a light ray on a plane mirror is 40 degrees, what will be the angle of reflection?
A) 80 degrees B) 20 degrees C) 40 degrees D) 0 degrees
10. For which of the following modes of transfer of heat is a medium required?
A) conduction B) convection
C) conduction and convection D) conduction and radiation
11. Why are two thin blankets put together warmer than blanket of double the thickness?
A) conductivity depends upon thickness. B) two blankets enclose a layer of air between them
C) one blanket closes the pores in the other D) two blankets eliminate the air

24. Synthetic fibres are prepared from which of the following raw materials
 A) Plants B) Animals C) Petrochemicals D) All of these
25. Presence of impurities _____ the freezing point of water
 A) Increase B) Decrease
 C) Does not change D) First increases and then decreases
26. In fizz drinks which of the following gas dissolved in water
 A) O_2 B) CO_2 C) H_2 D) N_2
27. Water which does not form lather with soap is called
 A) Hard water B) Soft water C) Ground water D) Surface water
28. Select the incorrect statement
 A) Physical change is usually reversible
 B) During physical change new substance is formed
 C) During physical change there is no net gain or loss of energy
 D) Both B and C
29. Study the Venn diagram and choose the correct option representing the point 'P'



- A) Eruption of volcanoes B) Ripening of mangoes
 C) Rusting of iron D) Both A and C
30. Which of the following causes change
 A) Heating B) Force C) Both A and B D) None of these

BIOLOGY

31. Where does digestion of food begin
 A) Stomach B) Small intestine C) Mouth D) Esophagus
32. Bile juice is produced by
 A) Liver B) Kidney C) Heart D) Small intestine
33. Muscles involved in inspiration is
 A) Biceps B) Triceps C) Diaphragm D) Pectoral

34. During inhalation, air moves from

A) Atmosphere to lungs	B) Lungs to atmosphere
C) Mouth to atmosphere	D) Tissue to blood
35. The process of exchange of O_2 and CO_2 between blood and body tissues is called

A) Ventilation	B) External respiration
C) Internal respiration	D) Breathing
36. Sulphur bacteria is an example for

A) Photoautotroph	B) Chemoautotroph	C) Saprotroph	D) Decomposer
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37. Sanguivores are organisms that feed primarily on

A) Insects	B) Fruits	C) Leaves	D) Blood
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38. Chloroplast is surrounded by

A) Single membrane	B) Double membrane	C) Triple membrane	D) No membrane
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39. Guard cells of the stomata are

A) Polygonal shaped	B) Spherical	C) Kidney shaped	D) Round shaped
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40. Which layer of forest is formed of crown of leaves and branches of very tall trees?

A) Forest floor	B) Understorey	C) Canopy	D) Both A and B
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41. is a Biennial plant

A) Rice	B) Grass	C) Cabbage	D) Teak
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42. Which of the following is not a function of forest,

A) Provide medicines	B) Control floods
C) Maintain nutrient supply	D) Increase the rate of soil erosion
43. Branch of agriculture that deal with growth and management of fruits and flowering plants is

A) Horticulture	B) Olericulture	C) Aquaculture	D) Sericulture
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44. is used as a leafy vegetable

A) Ginger	B) Brinjal	C) Spinach	D) Pumpkin
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45. Khurpa is used for

A) Weeding	B) Tillage	C) Digging	D) Irrigation
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MATHEMATICS

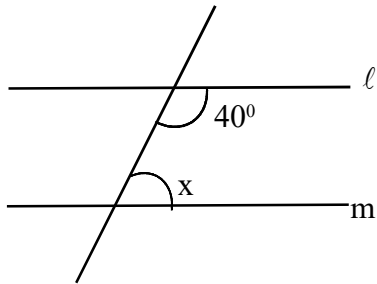
46. $9^9 \times 9^{-2}$

A) 9^1	B) 9^2	C) 9^3	D) 9^7
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47. Father has to distribute Rs. 5000 among his son and daughter in the ratio 3 : 7 respectively. the amount daughter will get is

A) 1000 B) 1500 C) 35000 D) 2000

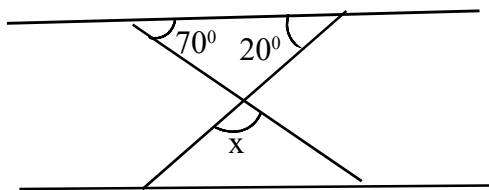
48.



In the figure $\ell \parallel m$ then x is

A) 140° B) 130° C) 50° D) None of these

49.



In the figure find x

A) 90° B) 70° C) 20° D) 50°

50. A man borrowed Rs. 20000 from a money lender at a rate of 5% per annum. What is the interest has to pay in 3 years

A) 2500 B) 3000 C) 4000 D) 5000

51. $a^2 \times a \times 1$

A) a^8 B) a^{10} C) a^{14} D) a^{20}

52. $\frac{a^{10} \times a^{15}}{a^5}$?

A) a^{20} B) a^{30} C) a^{-1} D) a^{50}

53. $a : 5 = 9 : 10$ then a is

A) 5 B) 4.5 C) 3 D) 1

54. A class has 500 students. The ratio of boys to girls is 2 : 3. Then number of boys in the class is

A) 100 B) 300 C) 400 D) 200

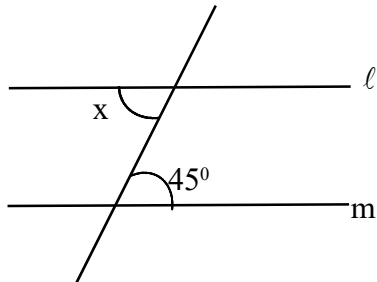
55. A right angled triangle has hypotenuse of length 25. The base and altitude is in the ratio 3 : 4 respectively than altitude is

- A) 15 B) 25 C) 5 D) 20

56. Surya borrowed Rs. 100000 from a bank for 3 years. 3 years be paid an interest of Rs. 30000 at what percent rate ?

- A) 20% B) 1-% C) 15% D) 5%

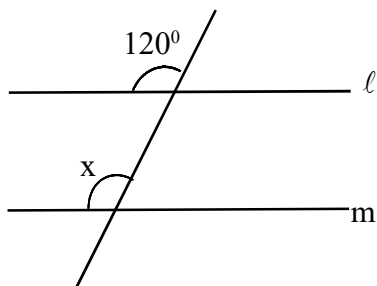
57.



In the given figure $\ell \parallel m$. then x is

- A) 90° B) 135° C) 45° D) 60°

58.



In the given figure $\ell \parallel m$. then x is equal to

- A) 120° B) 60° C) 30° D) 90°

59. Angle x and y forms a linear pair than $x + y =$

- A) 90° B) 45° C) 180° D) 92°

60. $2^5 \times 2^{10} \times 2^0 =$

- A) 2^{15} B) 2^{16} C) 2^{17} D) 1

Name

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MOCK TEST

	P + C + B + M - KEY	Class : VII
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PHYSICS

1. B
2. C
3. D
4. B
5. C
6. D
7. A
8. B
9. C
10. C
11. B
12. A
13. B
14. B
15. A

CHEMISTRY

16. A
17. B
18. D
19. C
20. A
21. C
22. D
23. A
24. C
25. B
26. B
27. A
28. B
29. C
30. C

BIOLOGY

31. C
32. A
33. C
34. A
35. C
36. B
37. D
38. B
39. C
40. C
41. C
42. D
43. A
44. C
45. A

MATHEMATICS

46. D
47. C
48. A
49. A
50. B
51. C
52. A
53. B
54. D
55. D
56. B
57. C
58. A
59. C
60. A