

Name

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Batch..... Roll No.

BRILLIANT SCIENCE OLYMPIAD

MOCK TEST

PHYSICS + CHEMISTRY + BIOLOGY + MATHS

Class V

PHYSICS

1. What do satellites help us with?
A) Growing plants
B) Watching TV and using phones
C) Cooking food
D) Cleaning rooms
2. Fireflies are examples of:
A) Non-living light B) Natural light C) Artificial light D) Living light
3. Which unit is used to measure mass?
A) Metre B) Gram C) Second D) Litre
4. A force can:
A) Make a moving object stop
B) Change the taste of food
C) Only change color
D) Make food
5. Sunlight is used to make:
A) Electricity B) Petrol C) Diesel D) Smoke
6. Space has:
A) Air B) Water C) Trees D) No air
7. A torch is a:
A) Luminous object
B) Non-luminous object
C) Transparent object
D) Shadow
8. A scale used to measure weight in a shop is called:
A) Thermometer B) Balance C) Stopwatch D) Meter stick
9. A moving fan shows:
A) Sound energy B) Mechanical energy C) Light energy D) No energy
10. From where do we get coal?
A) Trees B) Sky C) Deep inside Earth D) Sea
11. Who was the first man on the moon?
A) Rakesh Sharma B) Yuri Gagarin C) Neil Armstrong D) Kalpana Chawla

12. Shadow changes when:
- A) The color of the object changes
 - B) The position of the light source changes
 - C) The type of wall or screen changes
 - D) Air moves around the object
13. Which of these is heavier?
- A) 1 kilogram of cotton
 - B) 1 kilogram of iron
 - C) Both same
 - D) Depends on size
14. Which simple machine helps lift heavy loads?
- A) Screwdriver
 - B) Pulley
 - C) Book
 - D) Eraser
15. What can we do to use less fuel?
- A) Switch off engine at red light
 - B) Drive fast
 - C) Keep engine on
 - D) Use big cars

CHEMISTRY

16. The main source of fresh water on Earth is:
- A) Oceans
 - B) Lakes and rivers
 - C) Sea
 - D) Ice caps
17. Which of these is both a liquid and a fuel?
- A) Petrol
 - B) Oxygen
 - C) Ice
 - D) Coal
18. Rainfall happens due to:
- A) Melting
 - B) Evaporation
 - C) Condensation
 - D) Freezing
19. If you add salt to water and stir, the salt:
- A) Floats on top
 - B) Sinks to the bottom and stays
 - C) Disappears but is still present
 - D) Changes into sugar
20. The freezing point of pure water is:
- A) 0°C
 - B) 10°C
 - C) 32°C
 - D) 100°C
21. Which of these is obtained from petroleum?
- A) Petrol
 - B) Diesel
 - C) Kerosene
 - D) All of the above

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22. Which process is best for separating mud from muddy water?
- A) Evaporation B) Sedimentation C) Filtration D) Both b and c
23. Which natural resource is used to grow crops?
- A) Soil B) Coal C) Gold D) Gas
24. Which of these substances is most harmful if mixed with drinking water?
- A) Salt B) Soap C) Pesticides D) Vinegar
25. In sugar syrup, sugar acts as:
- A) Solute B) Solvent C) Solution D) None of these
26. The main reason why boiling water is a good practice is:
- A) It removes oxygen B) It makes water tasteless
- C) It kills germs D) It evaporates water
27. Particles in a solid are:
- A) Closely packed and fixed in position
- B) Far apart and moving freely
- C) Slightly apart and sliding over each other
- D) Arranged randomly
28. Find the odd one out:
- A) Water B) Petroleum C) Sunlight D) Wind
29. Match Renewable and Non-Renewable Resources
- | | |
|--------------|---------------------------|
| Fuels | Options: |
| A. Sunlight | 1. Renewable resource |
| B. Coal | 2. Non-renewable resource |
| C. Wind | |
| D. Petroleum | |
- A) $A \rightarrow 2, B \rightarrow 1, C \rightarrow 1, D \rightarrow 2$
- B) $A \rightarrow 1, B \rightarrow 2, C \rightarrow 1, D \rightarrow 2$
- C) $A \rightarrow 2, B \rightarrow 2, C \rightarrow 1, D \rightarrow 1$
- D) $A \rightarrow 1, B \rightarrow 2, C \rightarrow 1, D \rightarrow 1$

30. True or false

I. Water is colourless, tasteless and odourless

II. Ice is denser than water and sinks in it

III. Water can exist in three states – solid, liquid and gas

I	II	III
A) T	F	T
B) F	F	T
C) T	T	T
D) T	T	F

BIOLOGY

31. Fruits and vegetables are:

- | | |
|--------------------|-----------------------|
| A) Animal products | B) Mineral products |
| C) Plant products | D) Synthetic products |

32. Which living resource helps in farming?

- | | | | |
|----------|------------|---------|--------|
| A) Camel | B) Tractor | C) Crow | D) Ant |
|----------|------------|---------|--------|

33. What do we get from bees?

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|---------|--------|----------|----------|
| A) Milk | B) Oil | C) Honey | D) Water |
|---------|--------|----------|----------|

34. Which sense organ helps to enjoy beautiful scenarios ?

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|--------|--------|---------|---------|
| A) Ear | B) Eye | C) Nose | D) Skin |
|--------|--------|---------|---------|

35. What are the sense organs made up of?

- | | |
|-------------------------------|-----------------|
| A) Only bones | B) Only muscles |
| C) Special tissues and nerves | D) Skin only |

36. The skin helps us to :

- | | | | |
|-----------------|----------------------|------------------|-----------------|
| A) See Pictures | B) Feel hot and cold | C) Smell flowers | D) Taste Sweets |
|-----------------|----------------------|------------------|-----------------|

37. What gas do plants absorb from the air for photosynthesis?

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|-----------|-------------|-------------------|-------------|
| A) Oxygen | B) Nitrogen | C) Carbon dioxide | D) Hydrogen |
|-----------|-------------|-------------------|-------------|

38. Which of these is a function of the skeletal system?

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|-------------------|-------------------------------|
| A) To digest food | B) To protect internal organs |
| C) To pump blood | D) To help you breathe |

39. Germs live in _____.
A) air B) water C) dust D) all of these
40. Herbivores eat only _____.
A) Animals B) Plants C) both (A) and (B) D) none of these
41. Have a bath _____ day with soap and water.
A) twice a B) every C) alternate D) all of these
42. In winter we can use _____ water to take bath.
A) warm B) cold C) dirty D) none of these
43. Which of these is a good way to kill germs on our hand ?
A) Using soap and water B) Blowing air on hands
C) Wiping with a cloth D) Shaking hands with a friend
44. Germs and bacteria are so small that we can see them only with a
A) Torch B) Microscope C) Sunglasses D) Telescope
45. A food chain always starts from _____.
A) Animals B) green plants C) both (A) and (B) D) none of these

MATHEMATICS

46. Which of the following property of multiplication is shown in the statement given below ?
 $10 \times 11 = 11 \times 10$
A) Associative B) Distributive C) Identity D) Commutative
47. If $4a + 3 = 5$ then the value of $2a$ is
A) 1 B) 3 C) 6 D) 5
48. Find the missing number
3, 8, 13, 18, 23,
- A) 30 B) 29 C) 28 D) 27
49. Which is greater
A) 0.1 B) 0.01 C) 0.05 D) 0.0001
50. The reciprocal of $\frac{3}{7}$ is
A) $\frac{5}{7}$ B) $\frac{7}{5}$ C) $\frac{7}{3}$ D) $\frac{3}{7}$

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51. Reduce $\frac{15}{45}$ into lowest form
- A) $\frac{3}{5}$ B) $\frac{3}{10}$ C) $\frac{1}{3}$ D) $\frac{6}{3}$
52. What is the sum of factors of 12 ?
- A) 30 B) 35 C) 25 D) 28
53. Which of the following is a prime number ?
- A) 28 B) 26 C) 23 d) 21
54. The smallest prime number is
- A) 3 B) 2 C) 5 D) 7
55. A rectangular swimming pool measures 10 m by 8 m. What is the area of the swimming pool ?
- A) 100 sq.m B) 50 sq.m C) 10 sq.m D) 80 sq.m
56. Find the missing numbers
- 3, 9, 27, 81,
- A) 243 B) 234 C) 225 D) 216
57. Solve, $50 - 20 \div 2 + 7 = \dots\dots\dots$
- A) 50 B) 48 C) 47 D) 45
58. Convert 789.3 into fraction
- A) $7893/10$ B) $7893/100$ C) $7893/1000$ D) $7893/10000$
59. What is the next fraction in this sequence ?
- $\frac{2}{77}, \frac{4}{77}, \frac{8}{77}, \frac{16}{77}, \dots\dots\dots$
- A) $\frac{64}{77}$ B) $\frac{32}{77}$ C) $\frac{28}{77}$ D) $\frac{30}{77}$
60. Sum of the prime numbers between 1 and 20 ?
- A) 70 B) 77 C) 80 D) 75

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MOCK TEST

		<i>P +C +B +M - KEY WITH HINTS</i>				Class V	
1.	B	16.	B	31.	C	46.	D
2.	D	17.	A	32.	A	47.	A
3.	B	18.	C	33.	C	48.	C
4.	A	19.	C	34.	B	49.	A
5.	A	20.	A	35.	C	50.	C
6.	D	21.	D	36.	B	51.	C
7.	A	22.	D	37.	C	52.	D
8.	B	23.	A	38.	B	53.	C
9.	B	24.	C	39.	D	54.	B
10.	C	25.	A	40.	B	55.	D
11.	C	26.	C	41.	A	56.	A
12.	B	27.	A	42.	A	57.	C
13.	C	28.	B	43.	A	58.	A
14.	B	29.	B	44.	A	59.	B
15.	A	30.	A	45.	B	60.	B