

# ALL INDIA **RPS** 2021 OLYMPIAD

Organized by : -  
RPS Education Society  
Mahendergarh,  
Haryana

**2<sup>nd</sup>** mega All India Online & Offline Event

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**EXAMINATION (PHASE-I)**

# RPS Olympiad-2021

## Class-6<sup>th</sup>

**M.M. : 60****Time : 60 Mins.****English (15 Marks)**

Choose the most appropriate option.

1. This ring is made \_\_\_\_\_ gold.
- (a) from
  - (b) with
  - (c) of
  - (d) by

Improve the underlined part of the sentence by choosing the correct option.

2. You should not indulge with frivolous activities.
- (a) to
  - (b) in
  - (c) of
  - (d) from
3. Pick out the verb from the following.
- (a) Smokes
  - (b) Smokeful
  - (c) Smoky
  - (d) None of these
4. Examples of irregular verbs are
- (a) break - broke
  - (b) train - trainer
  - (c) walk - walked
  - (d) happy - happier
5. The birds are flying in the sky.
- What kind of verb is are flying in above sentence?
- (a) Transitive
  - (b) Intransitive
  - (c) Infinite
  - (d) Phrasal verb

6. Find out the error part of the following sentence.  
He saw(1)/ a crew of ships(2)/ in the harbour.(3)/ No error(4)
- (a) 1  
(b) 2  
(c) 3  
(d) 4
7. Which of the following words can be made plural by changing 'f' into 'ves'?
- (a) Chief  
(b) Roof  
(c) Gulf  
(d) Thief
8. Select the correct form of the verb.  
She \_\_\_\_\_ the right answer.
- (a) know  
(b) is knowing  
(c) known  
(d) knows
9. Some of these clothes are \_\_\_\_\_ and the rest of \_\_\_\_\_ belong to Jack.
- (a) yours / it  
(b) my / them  
(c) mine / them  
(d) hers / their
10. Sri Lanka is \_\_\_\_\_ the south of India.
- (a) in  
(b) to  
(c) at  
(d) on

11. I was annoyed \_\_\_\_\_ his rude behaviour.
- (a) with
  - (b) at
  - (c) on
  - (d) over
12. This letter was written \_\_\_\_\_ red ink.
- (a) with
  - (b) to
  - (c) by
  - (d) in

**Direction. (Ques.13 to 15) A sentence has been given in direct / indirect speech. Out of the four alternatives, select the one which best expresses the same sentence in direct/indirect speech.**

13. He said, "Fortune favours the brave."
- (a) He said that fortune favours the brave.
  - (b) He said that fortune favoured the brave.
  - (c) He said that fortune had favoured the brave.
  - (d) He said that fortune has favoured the brave.
14. The old woman said, "Alas! I am ruined."
- (a) The old woman said Alas she was ruined.
  - (b) The old woman exclaimed with regret that she is ruined.
  - (c) The old woman exclaimed with joy that she was ruined.
  - (d) The old woman exclaimed with sorrow that she was ruined.
15. He said, "I saw a tiger in the zoo."
- (a) He said that I saw a tiger in the zoo.
  - (b) He said that he saw a tiger in the zoo.
  - (c) He said that he had seen a tiger in the zoo.
  - (d) He said that he has seen a tiger in the zoo.

**Maths (15 Marks)**

16. A rectangular sheet of paper of length 18cm and breadth 3cm is cut into square pieces such that each square has a maximum area. Find the number of such squares formed.
- (a) 9                      (b) 8                      (c) 6                      (d) 4
17. Collection of numbers to give some information is called
- (a) Data  
(b) Tally marks  
(c) Bar graphs  
(d) Pictograph
18. Which of the following is composite number?
- (a) 51                      (b) 41                      (c) 61                      (d) 71
19. Which of the following has no line of symmetry?
- (a) line segment  
(b) Semi-circle  
(c) Angle  
(d) Parallelogram
20. When we add two negative integers we get always
- (a) Positive integers  
(b) Negative integers  
(c) -1  
(d) 0
21. There are 9 plates and eight biscuits placed in each plate. If 3 biscuits are taken away from each plate, then how many biscuits are left in the plates?
- (a) 69                      (b) 72                      (c) 36                      (d) 45

22. If  $x : 4 :: 32 : 8$ , then  $\frac{x}{2} + 2 =$

- (a) 48                      (b) 32                      (c) 10                      (d) 16

23. If  $p=17q$  and  $91r =7q$  then the ratio of p to r is

- (a) 121 : 1  
(b) 221 : 1  
(c) 201 : 1  
(d) 131 : 1

24. What must be subtracted from  $\frac{59}{13}$ , so that the result is a prime number that is not odd?

- (a)  $\frac{33}{13}$   
(b)  $\frac{13}{33}$   
(c)  $\frac{15}{13}$   
(d)  $\frac{10}{13}$

25. If  $\frac{1}{11} = \frac{x}{121} = \frac{132}{y}$ , then find the value of  $\frac{x+y}{7}$ .

- (a) 1463  
(b) 209  
(c) 336  
(d) 463

26. If AB is a diameter that divides the circle into K equal halves then K is equal to

- (a) 2  
(b) 3  
(c) 4  
(d) 5

27. All faces of a triangular pyramid are \_\_\_\_\_.
- (a) squares
  - (b) rectangles
  - (c) spheres
  - (d) triangles
28. Which of the following statement is correct?
- (a) Every odd number is prime.
  - (b) Every even number is composite.
  - (c) Every prime is odd.
  - (d) None of these
29. The side of a square is 15cm. How many times does the area increase, if the side of the square is tripled?
- (a) 4                      (b) 6                      (c) 9                      (d) 12
30. The number of steps we move from 14 to reach -5 are
- (a) 9                      (b) 19                      (c) 8                      (d) 25

**Science (15 Marks)**

31. The main characteristics of a fuse wire are \_\_\_\_\_.
- (i) low melting point
  - (ii) high melting point
  - (iii) high conductivity
  - (iv) low conductivity
- (a) (i) & (iii)
- (b) (i) & (iv)
- (c) (ii) & (iii)
- (d) None of these
32. Which of the following is true about magnets?
- (i) Every magnet has only two poles.
  - (ii) Magnetic poles can be isolated.
  - (iii) Like poles of a magnet attract each other.
- (a) Only (i)
- (b) (i) and (ii)
- (c) (ii) and (iii)

(d) (i), (ii) and (iii)

33. Identify the odd one out.

(a) Nickel – iron battery

(b) Lead – acid battery

(c) Nickel – cadmium battery

(d) Mercury battery

34. Umbra is the\_\_\_\_\_.

(a) fully shaded region

(b) outer region of the shadow cast by an opaque object

(c) inner region of the shadow cast by an opaque object

(d) both (a) and (c)

35. If the distance between two cities A and B is more than between another two cities P and Q, then \_\_\_\_\_.

(a) time taken will be more in travelling from A to B than from P to Q

(b) time taken will be more in travelling from P to Q than A to B

(c) time taken will be same in both cases

(d) data insufficient

36. \_\_\_\_\_: Synthetic fibre:: Wool : Natural fibre.

(a) Acrylic

(b) Polyester

(c) Silk

(d) Both (a) and (b)

37. The process of distillation comprises\_\_\_\_\_.

(a) evaporation followed by filtration

(b) sieving followed by winnowing

(c) evaporation followed by condensation

(d) sedimentation followed by decantation.

38. Which of the following are periodic changes?

(i) Landslide

(ii) Motion of a swing

(iii) Tides in the ocean

(iv) Thunder and lightning

(v) Bursting of fire crackers

(vi) Day and night

(a) (i), (iv) and (v)

(b) (i) and (ii)

(c) (iv) and (vi)

(d) (ii), (iii) and (vi)

39. Choose the incorrect statement.

(a) An object could be made of a single material.

(b) An object could be made of many materials.



- (c) One material could be used for making many different objects.  
 (d) All the statements are correct.
40. Excessive accumulation of which gas in a closed room leads to suffocation?  
 (a) Carbon dioxide (b) Nitrogen  
 (c) Sulphur dioxide (d) Oxygen
41. Which of the following statements is/are incorrect?  
 (i) Lower jaw bone is movable.  
 (ii) Pectoral girdles support the bones of the arms.  
 (iii) Hinge joints are present in shoulders and hips.  
 (iv) Pivotal joint allows all-round movement.  
 (v) Radius is the inner, larger bone between the knee and the ankle.  
 (a) (iii), (iv) and (v) (b) (iv) and (v)  
 (c) Only (v) (d) (i), (ii) and (v)
42. Select the correct match of animal and its adaptive feature.  
 (a) Snow leopard – Large ears (b) Deer – Eyes on the front of the head  
 (c) Mountain goat – Strong hooves (d) Dolphin – Presence of gills
43. Carpals are present in the \_\_\_\_\_.  
 (a) wrist (b) ankle (c) knee (d) elbow
44. Who among the following is taking a balanced diet?  
 (a) Shikha- eating a bowl full of fruits.  
 (b) Madhur – drinking a glass of milkshake along with a sandwich made of sprouts.  
 (c) Teena – eating a sandwich with some French fries.  
 (d) Apoorva - eating a burger.
45. Select the correct match.
- | Feature      | Example       | Function                 |
|--------------|---------------|--------------------------|
| (a) Thorn    | Bougainvillea | Provide protection       |
| (b) Tendrils | Ginger        | Provide support          |
| (c) Tuber    | Garlic        | Store food               |
| (d) Rhizomes | Onion         | Multiplication of plants |

**Aptitude (15 Marks)**

46. Choose the correct alternative that will continue the series.

22, 24, 28,?, 52,84

- (a) 38                      (b) 42                      (c) 46                      (d) 36

47. Which replaces question mark (?) in the series given below ?

88, 64, 24, ?

- (a) 8                      (b) 6                      (c) 2                      (d) 5

48. Choose the odd one out

- (a) Physics    (b) Chemistry  
(c) Biology    (d) Geography

49. If GOODNESS is coded as HNPCODTR, then how GREATNESS can be written in that code?

- (a) HQZSMFRT  
(b) HQFZUFRTM  
(c) HQFZUODTR  
(d) HQFZUMFRT

50. If A is brother of B. C is father of D. E is mother of B. A and D are brothers. Then, what is the relation of E to C?

- (a) Sister                      (b) Sister-in-law                      (c) Niece                      (d) Wife

51. Vikash is facing towards west and turns through  $45^\circ$  clockwise, again  $180^\circ$  clockwise and then turns through  $270^\circ$  anticlockwise. In which direction is he facing now?

- (a) West  
(b) North-west  
(c) South  
(d) South-west

52. How many times are the hands of a clock at right angles in a day?

- (a) 22                      (b) 11                      (c) 44                      (d) 24

53. Which year will have the same calendar as that of 2012?

- (a) 2020                      (b) 2040                      (c) 2025                      (d) 2031

54. How many 2's are there in the following series which are immediately preceded by 9 but not immediately followed by 7 ?

7 5 2 4 2 9 7 2 9 2 5 4 2 5 7 2 9 1 2 7

- (a) 1 (b) 2 (c) 3 (d) 0

55. If P denotes 'X', T denotes '-', M denotes '+' and B denotes '÷', then  $12P6M15T16B4 = ?$

- (a) 70 (b) 83 (c) 75 (d) 110

56. A, B, C, D and E are Five friends. A is shorter than B, But taller than E. C is the tallest. D is shorter than B and taller than A. Who has two persons taller and two persons shorter than him/her ?

- (a) A (b) B (c) C (d) D

57. A, B, C, D and E are Five friends. A is shorter than B, But taller than E. C is the tallest. D is shorter than B and taller than A. Who is shortest?

- (a) A (b) C (c) D (d) E

58. Select the Missing Number from the given sequence.

3	2
4	24

2	-1
-2	4

6	5
0	?

- (a) 1 (b) 30 (c) 11 (d) 0

59. If 25th of August in a year is Thursday, then the number of Mondays in that month is -

- (a) 3 (b) 4 (c) 5 (d) 6

60. In a class of students, Sandeep is 25th from top and 32 from bottom in a class, then total number of students in the class is.

- (a) 56 (b) 50 (c) 57 (d) 58