CLED 2021 OLYMPIAD

Organized by : -RPS Education Society Mahendergarh, Haryana

2nd mega All India Online & Offline Event

Where the Brilliants can also have chance to get bigger platform in 2021















SANTRO CAR

SCOOTY

TABLE

KINDLES

BICYCLES

EDUCATIONAL KIT

EXAMINATION (PHASE-I)

RPS Olympiad-2021

Class-8th

M.M.: 60 Time: 60 Mins.

English (15 Marks)

Direction: (Q1 to Q3) Choose the alternative which best expresses the meaning of each underlined idiom / phrase.

- 1. Our plan to go to London is in the air.
 - (a) undecided
 - (b) certain
 - (c) under consideration
 - (d) for approval
- 2. She is a person who **pulls no punches**.
 - (a) speaks politely
 - (b) speaks frankly
 - (c) speaks rudely
 - (d) speaks sweetly
- 3. He is as daft as a brush. Don't believe a word of what he says.
 - (a) a liar
 - (b) really silly
 - (c) very funny
 - (d) unreliable

Direction: (Q4 to Q5) A sentence has been given in Active Voice. Out of the four alternatives, select the one which best expresses the same sentence in Passive Voice.

- 4. Can we rely on him?
 - (a) Can we be relied by him?
 - (b) Can we be relied on by him?
 - (c) Can he be relied by us?
 - (d) Can he be relied on?
- 5. God helps those who help themselves.
 - (a) Those who help themselves are helped by God.
 - (b) Those who are helped by themselves are helped by God.
 - (c) Those who help God help themselves.
 - (d) Those who help themselves help God.

Direction (Q6-Q7) 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.

- 6. The teacher said that the burglar had broken into the office.
 - (a) The teacher said, "The burglar broke into the office."
 - (b) The teacher said, "The burglar break into the office."
 - (c) The teacher said, "The burglar was broken in the office."
 - (d) The teacher said, "The burglar broken into the office."
- 7. "Why don't you see a doctor?" said Mrs. Lal to Nina.
 - (a) Mrs. Lal asked Nina why she couldn't see a doctor.
 - (b) Mrs. Lal demanded why Nina didn't see her doctor.
 - (c) Mrs. Lal advised Nina to see a doctor.
 - (d) Mrs. Lal advised that Nina to see her doctor.
- 8. Find the incorrect sentence.
 - (a) The queen bee, with her workers preside over the hive.
 - (b) Pinky, Lilly and Sheela go to the same school.
 - (c) Either of the two boys has done this.
 - (d) You, who are my friend, should not blame me.

Direction: (Q9-14) Fill in the blanks by choosing appropriate option.

9. Had I saved money, I	a new car.
(a) will purchase	
(b) would purchase	
(c) would have purchased	
(d) purchased	
10. He is very good	_ making stories.

- (a) in
- (b) about
- (c) at
- (d) for
- 11. I _____ lest I should be wrecked.
 - (a) am alarming
- (b) is alarmed
- (c) had alarmed
- (d) was alarmed

12. Candidates _____ answer all the questions.

- (a) should
- (b) must
- (c) would
- (d) can

13. _____ that I were a king!

- (a) Should
- (b) Could
- (c) May
- (d) Would

14. A large number of soldiers _____ died for the country.

- (a) has
- (b) is
- (c) are
- (d) have

15. Choose the correct sentence.

- (a) Your cow is humbler than wild.
- (b) He was taller than handsome.
- (c) Shweta is relatively healthier today.
- (d) None of these

Maths (15 Marks)

16. If a^m . $a^n = a^{mn}$, find the value of $\frac{1}{m} + \frac{1}{n}$.

- (a) 2
- (b) 1

(c)3

(d) $\frac{1}{2}$

17. Which of the following is binomial?

- (a) ax
- (b) $(x-y)^2$
- $(c) (x+y)^2$
- (d)(x+y)(x-y)

18. Which of the following cannot be true for a polyhedron?

- (a) V=4, F=4, E=6
- (b) V=6, F=8, E=12
- (c) V=20, F=12, E=30 (d) V=4, F=6, E=6

19. Find the value of $\frac{5 \times 3^{n+1} - 4 \times 3^n}{5 \times 3^{n+2} - 4 \times 3^{n+1}}$.

(a) A natural number

(b) A whole number

(c) An integer

(d) A fraction whose value is $\frac{1}{3}$.

LIN	IDIA RPS OLYMPIAD	-2021		Class 8 th				
20. If $ab + bc + ca = 4$ and $abc = 2$, then find the value of $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$								
	(a) 2	(b)1	(c) 0	(d) -1				
21.	Rakesh and Siva car	n do a piece of work in 15 d	days and 18 days respecti	vely. They work together				
	for 5 days and then Rakesh leaves. In how many days will Siva alone finish the remaining work?							
	(a) 5	(b) 6	(c) 8	(d) 7				
22.	22. A hall is 15m long and 12m broad. If the sum of the areas of the floor and the ceiling is equal to the							
	sum of the areas of four walls, the volume of hall is:							
	(a) 720m ³	(b) 900m ³	(c) 1200m ³	(d) 1800m^3				
23. Given that $\sqrt{n} = 21$, find the value of $3n+5$								
	(a) 1328	(b) 1446	(c) 432	(d) 722				
24. Given that $k=x+2$ and $\frac{2k-3}{6} - \frac{k-1}{5} = \frac{x}{10}$, find the value of x.								
	(a) 1	(b) 0	(c) 2	(d) 4				
25.	The sum of three time	es of a number and 6 is 30.	Find the number					
	(a) 8	(b) 10	(c) 12	(d) 15				
26.	26. Factors of $\frac{x^2}{y^2} - 2 + \frac{y^2}{x^2}$ are							
	(a) $\left(\frac{x}{y} - \frac{y}{x}\right) \left(\frac{x}{y} - \frac{y}{x}\right)$	(b) $\left(\frac{x}{y} + \frac{y}{x}\right) \left(\frac{x}{y} - \frac{y}{x}\right)$	(c) $\left(\frac{x}{y} + \frac{y}{x}\right) \left(\frac{x}{y} + \frac{y}{x}\right)$	(d) None of these				
27. If ABCD is a parallelogram, then $\angle A - \angle C$ is equal to								
	(a) 60^0	(b) 90^0	(c) 180^0	(d) 0^0				
28. In what time will Rs 800 amount to Rs 882 at 5% per annum compounded annually?								
	(a) 2 years	(b) 3 years	(c) 1 year	(d) 5 years				
29. The area of a trapezium is 180 cm ² . Its parallel sides are in the ratio1:2 and the distance between								
	them is 12cm. The length of each of the parallel sides is							
	(a) 10cm, 15cm	(b) 15cm, 30cm	(c) 20cm, 30cm	(d) 10cm, 20cm				
30. 15% of a number is less than 25% of the same number by 8. Find the number.								
	(a) 120	(b) 150	(c) 100	(d) 80				

Science (15 Marks)

- 31. The hormone secreted by the pineal gland is ______
 - (a) insulin
 - (b) melatonin
 - (c) adrenaline
 - (d) growth hormone
- 32. Which of the following is matched correctly in the table given below?

Disease

Transmission

(i) AIDS

Through unprotected sexual intercourse

(ii) Malaria

Through body contact

(iii) Hepatitis A and B

Through contaminated food

- (a) Only (i)
- (b) (i) and (ii)
- (c) (i) and (iii)
- (d) (ii) and (iii)
- 33. Choose the correct statements.
 - (i) The shape of the cells is related to their function.
 - (ii) All living cells come only from other non-living cells.
 - (iii) The size of the cells has no relation with the size of the body.
 - (iv) All living organisms are composed of cells and cell products.
 - (a) (i) and (ii)
 - (b) (ii) and (iv)
 - (c) (ii), (iii) and (iv)
 - (d) (i), (iii) and (iv)
- 34. Implantation is _____.
 - (a) hatching of a fertilized egg
 - (b) attachment of embryo to the uterus wall
 - (c) formation of new individual from parent body
 - (d) fusion of sperm with ovum
- 35. Planaria reproduces by ______.
 - (a) binary fission
 - (b) budding
 - (c) fragmentation

- (d) regeneration.
- 36. Read the given statements and select the correct option.

Statement 1: Actions likes pushing, pulling, lifting etc. result in some kind of change in the motion of an object.

Statement 2: The motion imparted to objects is due to the action of a force.

- (a) Only statement 1 is correct
- (b) Only statement 2 is correct
- (c) Both statements 1 and 2 are correct.
- (d) Neither statement 1 nor statement 2 is correct.
- 37. A person has applied some mustard oil on his hands. Which of the following objects will become most difficult for him to hold in his hand?
 - (a) Glass tumbler
 - (b) Earthen cup (Kulhar)
 - (c) Thermocol tumbler
 - (d) Wooden cup
- 38. A series of fast moving still pictures can create an illusion of movement. Why?
 - (a) The eye can focus on very rapidly changing pictures.
 - (b) The eye is quicker than the brain.
 - (c) The eye can separate two images only when the interval of separation between them is one-sixteenth of a second.
 - (d) The optical cortex can see through the rapidly moving images.
- 39. The frequency of a source is 15kHz. What will be the frequency of the sound wave produced by it in water and air?
 - (a) It is the same as that of the source.
 - (b) Frequency in water will be more than that in air.
 - (c) Frequency in air will be more than that in water.
 - (d) Depends upon the velocities of sound in these media.
- 40. What is the lightning streaks that we see?
 - (a) UV rays from the sun
 - (b) Cosmic rays
 - (c) Accumulated electric charges
 - (d) IR rays from the sun

- 41. What is the principle involved in the glowing of an electric bulb?
 - (a) Magnetic effect of current
 - (b) Heating effect of current
 - (c) Chemical effect
 - (d) Conduction of current
- 42. Which of the following is in descending order of the quality of coal?
 - (a) Peat > bituminous > lignite > anthracite
 - (b) Bituminous > peat > lignite > anthracite
 - (c) Anthracite > bituminous > lignite > peat
 - (d) Lignite > anthracite > bituminous > peat
- 43. What kind of reaction is combustion?
 - (a) Reduction
 - (b) Redox
 - (c) Substitution
 - (d) Oxidation
- 44. Identify the oxide of a non- metal which is neutral.
 - (a) SO_2
 - (b) NO₂
 - (c) P_2O_3
 - (d) CO
- 45. Why is plastic coated with melamine?
 - (a) It becomes a good conductor of heat.
 - (b) It becomes strong and flexible.
 - (c) It becomes a fire proof plastic.
 - (d) It is remouldable.

Aptitude (15 Marks)

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46. Complete the so	equence: 19, 2, 38	8, 3, 114, 4, ?						
(a) 352	(b) 256	(c) 22	8	(d) 456				
47. A clock is set t	to show the correct	ct time at 11AM. The	clock gain 12 minutes	s in 12 hours. What will be				
the true time when the watch indicates 1 PM on the 6 th day ?								
(a) 10 AM	(b) 12 Noon	(c) 11	AM (d) N	None of these				
48. All faces of a	solid cube of edg	ge 8 cm are coloured. T	Then it is divided equa	ally in the cubes of edge 2				
cm. How many	y cubes will have	all faces coloured?						
(a) 1	(b) 4	(c) 8	(d) None of these					
49. Deepa ranks 18	8 th in a class of 49	9 students. What is her	rank from the last?					
(a) 31	(b) 32	(c) 19	(d) 1	8				
50. In a certain co	de language, 'it	pit sit' means 'I am	boy', 'it nit sit' mea	ans 'I am girl'. Which of				
the following	g means 'girl'?							
(a) it	(b) pit	(c) sit	ţ	(d) nit				
51. A family consi	sts of a man, his	wife his three sons the	ir wives and three chi	ildren in each son's family.				
How many mer	nbers are there in	the family?		·				
(a) 12	(b) 13	(c) 15		(d) 17				
52. Pratap starts f	rom school and v	walks 7 km towards E	ast. He takes a left ar	nd walks 4 km, then takes a				
right and walks	2 km, again take	es a right and walks 3k	m. Which direction is	s he facing now?				
(a) South	(b) North	_		(d) West				
53. When will cale	endar of 2016 rep							
(a) 2022	(b) 2036	(c) 2	035	(d) 2044				
54 On which dates	of December, 19	984 did Sunday fall?						
(a) 6th, 13th, 20th and 27th			h, 14th, 21st and 28th	l				
(c) 2nd, 9th, 16th, 23rd and 30th		(d) 1s	(d) 1st, 8th, 15th and 22nd					
		ute hand in 5 minute?						
(a) 30°	(b) 45°	(c) 3	5°	(d) 60°				
56. Statements 1.	All dogs are rats.							
2. All rats are crows.								
3. All crows are parrots.								
Conclusions I. All dogs are parrots. II. Some parrots are dogs.								
III. Some crows are dogs.								
	All rats are dogs	.~ ₅						
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- (a) I and II follow
- (b) I, II and III follow
- (c) Either II or IV follows
- (d) Either I or II or III follows
- 57. If $64 \times 52 = 17$, $48 \times 56 = 23$ and $74 \times 35 = 19$ then $84 \times 37 = ?$
 - (a) 32

- (b) 28
- (c) 22

- (d) 20
- Among five friends, Mohan is older than Raju but not as old as lalit. Lalit is older than Neelesh and Kabir. Neelesh is young than Raju but not the Youngest. Who is the fourth in the descending order of age?
 - (a) Mohan
- (b) Raju

- (c) Kabir
- (d) None of these

59. Find the missing term in the given series.

- (a) mnmn
- (b) mnnm
- (c) mnmm
- (d) nmmm
- 60. A Monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing the beginning of the next hour. If he begins his ascent at 8.00 am, at what time will he first touch a flag at 120 feet from the ground?
 - (a) 4 PM
- (b) 6 PM

(c) 3 PM

(d) 5 PM