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OFFLINE EXAMINATION (PHASE –II)						
		CLASS-VII				
<b>M.M.</b>	60			TIME: 60 Minutes		
Name	<b>:</b>	Regn. No	Mob	bile No		
Gener	al Instructi	ons:-				
1.	Duration of	the examination is 60. Question Paper	contains 60 ques	estions with maximum 60 marks.		
2.	There will	be negative marking in Phase -II i.	e: ¼ mark will	l be deducted for each incorrec	et	
	answer.					
3.	3. Use of gadgets is not allowed.					
4.	. Students must abide by the instructions issued during the examination by the invigilator or the centre incharge.					
5.	5. Before attempting the question paper ensure that it contains all pages & no question is missing.					
6.	5. Immediately fill the particulars on this page of the test booklet with blue/black ball point pen. Use of pencil is strictly prohibited.					
7.	7. Darken the bubbles completely. Do not put a tick ☑ or a cross ☒. Fill the bubbles completely.					
	8. Half-filled or over-filled bubbles will not be read by the software & liable to be rejected.					
	Correct Me	ethod	Wron	ong Method		
			$\otimes$			

Invigilator's Signature

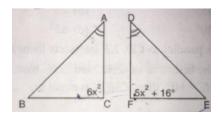
Student's Signature

# **ALL INDIA RPS OLYMPIAD-2022**

(Organized by RPS Education Society Mahendergarh-Haryana)

M.M. 60		Class -7th	Time: 60 Minutes			
			English (15)			
1.	Do not jeer	the poor be	ggar.			
	(a) on	(b) upon	(c) in	(d) at		
2.	I prevail	him to joir	n a college.			
	(a) to	(b) in	(c) on	(d) against		
3.	Neither of them	the sta	andard required.			
	(a) reaches	(b) reach	(c) were reaching	g (d) none of these		
4.	She and not you	at fau	ılt.			
	(a) is	(b) are	(c) am	(d) none of these		
Direct	ions (5-6): In the fo	llowing ques	stions, a sentence has been g	iven in Active/ Passive Voice. From		
the giv	ven alternatives, ch	oose the one	which best expresses the giv	ven sentence in Passive/Active Voice.		
5.	Many persons went	to see the ha	nging of the patriot.			
	(a) The hanging of the patriot is seen by many of persons.					
	(b) Many persons went to see the patriot being hanged.					
	(c) It is seen by many persons the patriot is being hanged.					
	(d) None of these					
6.	Thank God.					
	(a) We thanked Goo	d. (b)	God is thanked by us.			
	(c) God be thanked	. (d)	It is said to be thanked.			
	Direction (Q. 7-8)	Choose the m	ost appropriate kind of the un	derlined Pronoun.		
7.	7. We believe in helping <b>each other</b> .					
	(a) Reflexive Prono	oun	(b) Possessive Pronoun			
	(c) Demonstrative I	Pronoun	(d) Reciprocal Pronoun			
8.	I <u>myself</u> solve the p	oroblem.				
	(a) Reflexive Prono	oun	(b) Empathic Pronoun			
	(c) Indefinite Prono	oun	(d) None of these			
9.	I don	't like this ve	getable.			
	(a) Shh!	(b) Ugh!	(c) Yippe!	(d) Yeh!		

10.	The size of the shirt is than I demanded.					
	(a) little	(b) littler	(c) littlest	(d) None of these		
Direc	etion (Q. 11) Choose	correct question tag	for the given sentence.			
11.	No body is present	here,?				
	(a) is he?	(b) isn't he?	(c) are they?	(d) aren't they?		
12. After I him a week, he asked for a loan of ten thousand rupee				and rupees.		
	(a) will know	(b) would have kno	own (c) know	(d) had known		
13.	If you yo	our superiors, you will	not come to grief.			
	(a) listen	(b) listens	(c) will have listen	(d) will listen.		
Direc	etions (14–15): In the	e following questions,	a sentence has been gi	ven in Direct/Indirect Speech.		
Out o	of the four alternativ	ves suggested, select tl	he one which best expr	esses the same sentence in		
Indir	ect/Direct Speech.					
14.	"Would that I were	rich!" said the poor be	eggar.			
	(a) The poor begga	r said that he would be	rich.			
	(b) If I would be rich asked the poor beggar.					
	(c) The poor beggar wished that he had been rich					
	(d) Both 'b' and 'c'	are correct.				
15.	15. He said, "Oh! for a glass of water."					
	(a) She told for a glass of water.					
	(b) She exclaimed with grief for a glass of water.					
	(c) She implored for a glass of water.					
(d) None of these						
		Math	ematics (15)			
16.	The supplement of an angle is $60^{\circ}$ more than twice the complement of the angle. Find the angle.					
	(a) 60	(b) $30^0$	(c) $120^0$	(d) none of these		
17.	If the perimeter of	a right- angled triangle	is 30 cm and the length	of its hypotenuse is 13 cm. What		
	can be the length of other two sides?					
	(a) 7 cm, 10 cm	(b) 6 cm, 11 cm	(c) 3 cm, 14 cm	(d) 5 cm, 12 cm		
18.	$\Delta ACB \cong \Delta DFE$ . F					



- (a)  $4^0$
- (b)  $96^0$
- (c)  $100^0$

(d)  $60^0$ 

19 If x % of y is the same as  $\frac{4}{5}$  of 80, then the value of xy is

- (a) 320
- (b) 400
- (c) 640
- (d) 6400

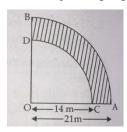
20. A person sells 320 mangoes at the cost price of 400 mangoes. What is his profit per cent?

- (a) 10 %
- (b) 15 %
- (c) 20 %
- (d) 25 %

21. The base of an isosceles triangle is 6 cm and its perimeter is 16 cm. Find its area.

- (a)  $96 \text{ cm}^2$
- (b)  $48 \text{ cm}^2$
- (c)  $22 \text{ cm}^2$
- (d)  $12 \text{ cm}^2$

In the adjoining figure, ABCD is a flower bed. If OA = 21 m and OC = 14 m, find the area of bed.



- (a)  $192.5 \text{ m}^2$
- (b)  $770 \text{ cm}^2$
- (c)  $385 \text{ cm}^2$
- (d) none of these

23. By how much is  $x^4 + 4x^2y^2 + y^4$  more than  $x^4 - 8x^2y^2 + y^4$ ?

- (a)  $12x^2y^2$
- (b)  $-12 x^2 y^2$
- (c)  $2x^4 + 2y^4$
- (d) none of these

24. If x = 1, y = -2 and z = 3, find the value of  $\frac{4xy - 4z^2}{x^2 + 2xyz}$ .

- (a) -4
- (b) +4
- (c) 8
- (d) + 8

25.  $\left[1-2(1-2)^{-1}\right]^{-1}$  equals

- (a) -1
- (b)  $\frac{1}{2}$
- (c)  $\frac{1}{3}$
- (d)  $\frac{-1}{3}$

26. If  $8^{n-1} = 2^{n+3}$ , then n is

- (a) 2
- (b) 4
- (c) 1
- (d) 3

27. The sides of a triangle are in the ratio  $\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$ . If the perimeter of the triangle is 52 cm, then what is

- the length of the smallest side?
- (a) 12 cm
- (b) 16 cm
- (c) 24 cm
- (d) none of these

28.	A bag contains re	ed, white and blue man	bles. The probability	of selecting a red marble is $\frac{2}{15}$	and that
	of selecting a blue marble is $\frac{4}{15}$ . The probability of selecting a white marble is.				
	(a) $\frac{13}{15}$	(b) $\frac{11}{15}$	(c) $\frac{3}{5}$	(d) $\frac{2}{5}$	
29.	In a certain hosp	ital, the mean birth rat	e of a week was 35. If	the mean birth rate from Mor	ıday to
	Thursday was 32	and that of the Thurse	day to Sunday was 36,	find the number of births on	Thursday
	(a) 20	(b) 27	(c) 32	(d) 35	
30.	What must be su	btracted from each ter	m of the ratio 4:7 so	that the ratio becomes 2:5?	
	(a) -2	(b) -1	(c) 2	(d) 1	
		S	cience (15)		
31.	An erect image,	5 times the size of the	object, is obtained wit	h a concave mirror of radius of	of
	curvature 40cm.	What is the position o	f the image ?		
	(a) 180 cm	(b) 100 cm	(c) 80 cm	(d) 20 cm	
32.	If three resistors	of resistances $2\Omega, 4\Omega$	and $6\Omega$ are connected	ed in parallel. If a 6V battery	is
	connected across	the circuit, Calculate	the value of total curre	ent of the circuit?	
	(a) 10 A	(b) 12.2 A	(c) 4A (	d) 5.5 A	
33.	A copper wire of	Resistance $16\Omega$ is do	oubled on it. Calculate	the new resistance of wire?	
	(a) $32\Omega$	(b) $4\Omega$	(c) 8Ω	(d) 16 $\Omega$	
34	Find the amount	of heat energy release	d when 2 gram of water	er is cooled from 70 °C to 10 °	<sup>0</sup> C. If
	specific heat capacity of water is 4.2 $\frac{J}{g^{\circ}C}$				
	(a) 252 J	(b) 504 J	(c) 1000 J	(d) 200 J	
35.	A train moves w	ith a speed of 30 km/h	in the first 15 minutes	s, with another speed of 40 km	n/h the
	next 15 minute and then with a speed of 60 km/h in the last 30 minutes. Calculate the average speed				
	of the train for th	nis Journey.			
	(a) 48.5 km/h	(b) 46 km/h	(c) 44 km/h	(d) 47.5 km/h	
36.	Identify the wror	ng statement			
	(a) Soil helps forests to grow and regenerate				
	(b) Forests influence climate and water cycle.				
	(c) Forest protect the soil from erosion				

	(d) Plants and animals in	a forest are not d	ependent on each other	•			
37.	Why do swimmers float in Dead Sea ?						
	(a) Salt makes it dense		(b) It is lighter in we	eight			
	(c) Both (a) and (b)		(d) None of these				
38.	Which of the following i	s the function of	hair	nair			
	(a) Traps a lot of air		(b) Protects internal	organs			
	(c) Gives shape		(d) Gives beauty				
39.	When magnesium is bur	When magnesium is burnt, heat and light are produced. The burning of magnesium is a.					
	(a) reversible Change		(b) physical Change				
	(c) chemical and exother	mic change	(d) chemical and end	dothermic char	ıge		
40.	Which of the following s	alts does not con	tain water of crystallization ?				
	(a) Blue Vitriol (b	) Baking Soda	(c) Washing	Soda	(d) Gypsum		
41.	Choose the function of the	ne pancreatic juic	e from the following sta	atements.			
	(a) Trypsin digests protein and lipase carbohydrates						
	(b) Trypsin digests emul	(b) Trypsin digests emulsified fats and lipase proteins.					
	(c) Trypsin and lipase digest fats						
	(d) Trypsin digests prote	ins and lipase em	ulsified fats.				
12.	Which of the following s	tatements are cor	rect?				
	(i) Pyruvate can be converted into ethanol and carbon dioxide by yeast						
	(ii) Fermentation takes place in the case of aerobic bacteria						
	(iii) Fermentation takes place in mitochondria						
	(iv) Fermentation is a form of anaerobic respiration.						
	(a) (i) and (ii) (b	) (ii) and (iii)	(c) (i) and (iii)	(d) (i) and (i	v)		
43.	If the cut end of a tree is put in eosin solution						
	(a) Leaves remain fresh but ascent of sap stops						
	(b) Phloem gets coloured because of ascent of sap.						
	(c) Xylem elements get stained showing ascent of sap through them.						
	(d) Ascent of sap stops						
14.	The blood leaving the tissues becomes richer in:						
	(a) carbon dioxide	(b) water	(c) oxygen	(d) h	aemoglobin		
<b>1</b> 5.	The organisms which can reproduce by fragmentation are.						
	(a) Corals and sponges		(b) Corals and spirogyra				
	(c) Sea anemone and spi	rogyra	(d) Sponges and Sea anemones				

#### **Aptitude (Reasoning-15)**

46. Find the missing term in the given series.

5824, 5242 ...... 4247, 3823

- (a) 4467
- (b) 4718
- (c) 4856
- (d) 5164

47. Analogy:

182:....::210:380

- (a) 156
- (b) 240
- (c) 272
- (d) 342
- 48. If 'MADRAS' can be written as ARSARS how can 'ARKONAM' be written in that code?
  - (a) ROAAKNM
- (b) ROAKANM
- (c) ROAKNNM
- (d) None of these
- 49. If ZIP = 198 and ZAP = 246 then how will you code VIP?
  - (a) 175
- (b) 222
- (c) 888
- (d) 990
- 50. Pointing to a photograph, a man said, "I have no brother or sister but that man's Father is my Father's

son. Whose photograph was it?

- (a) His own
- (b) His Son's
- (c) His Father's
- (d) None of these
- 51. A, B, C and d are to be seated in a row. But C and d cannot be together. Also B cannot be at the third place.

Which of the following must be false?

(a) A is at the first place

(b) A is at the second place

(c) A is at the third place

(d) A is at the fourth place

52

6	11	25
8	6	16
12	5	

- (a) 18
- (b) 16
- (c) 12
- (d) 10
- 53. At the end of a Business conference the ten people present all shake hands with each other once.

How many handshakes will there be altogether?

- (a) 20
- (b) 45
- (c) 55
- (d) 90
- 54. If A + D = B + C, A + E = C + D, 2C < A + E and 2A > B + D then
  - (a) A > B > C > D > E
- (b) B > A > D > C > E
- (c) D > B > C > A > E
- (d) B > C > D > E > A
- 55. In a dice a, b, c and d are written on the adjacent faces, in a clockwise order and e and F at the top and bottom. When C is at the top. What will be at the bottom?

(a) a

(b) b

(c) c

(d) data insufficient

56. 08:66::?:38

(a) 2

(b) 6

(c) 12

(d) 19

57. In the following series, how many KGN occur in such a way that 'G' is in the middle and 'K' and 'N' are adjacent to it on both sides?

AKGLMNDQKGCSNGKTGKGNDZPUXGKE

(a) 3

(b) 5

(c) 1

(d) 2

58. If ASHA equals 79, then VINAY BHUSHAN = ?

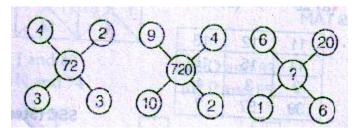
(a) 211

(b) 200

(c) 144

(d) 180

59



(a) 72

(b) 720

(c) 7200

(d) 38

60. In a line of boys Aman is 12<sup>th</sup> from top and baman is 18<sup>th</sup> from bottom. If there are 6 boys between Aman and Baman, then how many maximum boys are there in the row?

(a) 34

(b) 36

(c) 35

(d) 37

### **SPACE FOR ROUGH WORK**

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