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OFFLINE EXAMINATION (PHASE – II)

CLASS-VIII

Regn. No_____

M.M. 60

Name :___

TIME: 60 Minutes

Mobile No._____

General Instructions:-

- 1. Duration of the examination is 60. Question Paper contains 60 questions with maximum 60 marks.
- 2. There will be negative marking in Phase -II i.e: ¹/₄ mark will be deducted for each incorrect answer.
- 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. Before attempting the question paper ensure that it contains all pages & no question is missing.
- 6. Immediately fill the particulars on this page of the test booklet with blue/black ball point pen. Use of pencil is strictly prohibited.
- 7. Darken the bubbles completely. Do not put a tick \square or a cross \blacksquare . Fill the bubbles completely.
- 8. Half-filled or over-filled bubbles will not be read by the software & liable to be rejected.



Student's Signature



Invigilator's Signature

(Organized by RPS Education Society Mahendergarh-Haryana)

M.M. 60

Class -8th

Time: 60 Minutes

English (15)

1. Directions (1–2): In the following questions, a sentence has been given in Direct/Indirect Speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct Speech.

- 1. The queen said to her son, "You must go to the forest and remain there till your father calls you back."
 - (a) The queen ordered her son to go to the forest and remain there till his father calls him back.
 - (b) The queen told her son that he must go to the forest and remain there till his father called him back.
 - (c) The queen told his son that you must go to the forest and remain there till your father called you back.
 - (d) The queen told her son to go to the forest and remained there till his father called him back.
- 2. The Prime Minister said that no one would be allowed to disturb the peace.
 - (a) The Prime Minister said, "We shall not allow any one to disturb the peace."
 - (b) The Prime Minister said, "We would not allow no one to disturb the peace
 - (c) The Prime Minister said, "No one will disturb the peace."
 - (d) The Prime Minister said, "No one can disturb the peace."

Directions (3-4): In the following questions, a sentence has been given in Active/ Passive Voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/ Active Voice.

- 3. They first sun-dried the garbage for one to three days to bring down the moisture level.
 - (a) The moisture level was brought down by sun-drying the garbage for one to three days.
 - (b) One to three days of sun-drying brought down the moisture level of the garbage.
 - (c) The moisture level of the garbage came down when it was sun-dried for one to three days.
 - (d) The garbage was first sundried for one to three days to bring down the moisture level.
- 4. We all know that there is only one God.
 - (a) We are all known that there is only one God.
 - (b) It is known to us all that there is only one God.
 - (c) We have all known that there is only one God.
 - (d) Only one God is known by us all.

Class-8th

5.	The ultimate dream	n of car lov	er is to own a Rolls-Royce.				
	(a) many	(b) a lot of	(c) few	(d) any			
6.	It is time wew	ith determination.					
	(a) act	(b) acted	(c) have acted	(d) will act			
7.	The ship will have	left before we	_ the harbour.				
	(a) shall reach	(b) reach	(c) reaches	(d) reached			
8.	Today students sho	ould be reconciled	the way things are cl	nanging.			
	(a) with	(b) from	(c) for	(d) at			
9.	The food that an av	verage Indian eats has	s been found to be deficient _	vitamins and proteins.			
	(a) of	(b) from	(c) with	(d) in			
Dire	ctions (10-12): In the	e following question	s, some parts of the sentenc	es have errors and some are			
corre	ect. Find out which j	part of the sentences	s has an error. The number	of that part is the answer. If a			
sente	ence is free from erro	or, your answer is N	o error.				
10.	Shilpa would broke	e (a)/ a pot every day	(b)/ when she came to Agra	last year. (c)/ No error (d)			
11.	Far from being a p	oor city with little div	versity, New Orleans (a)/ cer	tainly rank as one of (b)/ the			
	most interesting spots in the United States. (c)/No error (d)						
12.	According to the police, (a)/ the killer of the girls in both villages are (b)/ probably between the ages						
	of 30 and 40. (c)/ N	No error (d)					
13.	2. You have caught the train if you had run fast.						
	(a) may	(b) can	(c) should	(d) could			
Dire	ctions (14 - 15): In ea	ach of the questions,	, four alternatives are giver	for the Idiom/Phrase. Choose			
the a	lternative which bes	st expresses the mean	ning of the Idiom/Phrase.				
14.	4. Cut a sorry figure						
	(a) Did not stand st	traight	(b) Apologised for his 1	remarks			
	(c) Created a good	impression	(d) Made a poor impres	sion			
15.	To take to task						
	(a) Forgave him		(b) Slapped him				
	(c) Gave him extra	work	(d) Reprimanded him				
		Matł	nematics (15)				

atic

- Which is greater $\left(\sqrt{7} + \sqrt{10}\right)$ or $\left(\sqrt{3} + \sqrt{19}\right)$? 16. (b) $\sqrt{3} + \sqrt{19}$
 - (a) $\sqrt{7} + \sqrt{10}$

(c) both are equal

(d) none of these

17.	A man can row at 8 km/h in still water. If the river is running at 2 km/h, it takes 48 minutes to row to						
	a place and back. How far is he from the place ?						
	(a) 1 km	(b) 2 km	(c) 3 km	(d) 4 km			
18.	If $x - \frac{1}{x} = 9$, then $x + \frac{1}{x} = 9$	$\frac{1}{x} = ?$					
	(a) $\sqrt{85}$	(b) $-\sqrt{85}$	(c) $\pm \sqrt{85}$	(d) none of these			
19.	If $x = \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}$ and	$y = \frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}}$, the value	e of $x^2 + xy + y^2$ is :				
	(a) 99	(b) 100	(c) 1	(d) 0			
20.	The parallel sides of	a trapezium are 20 cm	and 10 cm. Its non-par	rallel sides are both equal, each			
	being 13 cm. Find th	e area of the trapezium	1?				
	(a) 120 cm^2	(b) 180 cm^2	(c) 210 cm^2	(d) 150 cm^2			
21	At what percent above	ve the cost price must a	n article be marked so	as to gain 25 % after allowing the			
	customer a discount	of 20 %.					
	(a) $\frac{125}{2}\%$	(b) $\frac{225}{2}\%$	(c) $\frac{125}{4}$ %	(d) $\frac{225}{4}\%$			
22.	Given $\frac{(x^2 - 5x + 6)}{(x^2 - 7x + 12)}$	$= \frac{(x^2 - x - 6)}{(x^2 + 7x + 10)}, \text{ find t}$	he value of x.				
	(a) 2.4	(b) – 2.0	(c) 2.2	(d) 2.3			
23	A square and a regul	ar hexagon have equal	perimeters. Their area	s are in the ratio:			
	(a) 2 : 1	(b) $2\sqrt{3}$:1	(c) $\sqrt{3}:2$	(d) 3 : 2			
24	A is thrice as good a work man as B and takes 60 days less than B for doing a job. Find the time in						
	which they can do it together.						
	(a) $22\frac{1}{2}$ days	(b) $20\frac{1}{2}$ days	(c) 22 days	(d) 20 days			
25 .	Which number can replace both the question marks in the equation $\frac{4\frac{1}{2}}{?} = \frac{?}{32}$						
	(a) 1	(b) 7	(c) $7\frac{1}{2}$	(d) none of these			
26.	If $y - 2$ and $y - \frac{1}{2}$ and	re factors of $py^2 + 5y +$	r, then				
	(a) p > r	(b) p = r	(c) p < r	(d) none of these			

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27. ABCD is a rectangle. Find x.

	$\begin{array}{c} D \\ (162^{\circ} - 3x) \\ 0 \\ A \\ 2x \end{array}$	C				
	(a) 54 ⁰	(b) 36^0	(c) 24^0	(d) 18^0		
28	Find the percentage increase in the area of a triangle if its each side is doubled.					
	(a) 50 %	(b) 100 %	(c) 300 %	(d) 150 %		
29.	A man gains 10 % b	y selling a certain artic	le for a certain price. I	f the sells it at double the price,		
	then the profit percent made is ?					
	(a) 100 %	(b) 110 %	(c) 120 %	(d) 130 %		
30.	Solve for n in $4^n + 4$	$^{n} + 4^{n} + 4^{n} = 2^{2010}$				
	(a) 1005	(b) 2010	(c) 1004	(d) 1003		

Science (15)

31. A stone is dropped from a 500 m tall building into a pond. When is sound splash heard ? Given $g = 10 \text{ m/s}^2$, speed of sound = 340 m/s.

(a) 10 sec (b) 11 sec (c) 11.47 sec (d) 10.47 sec

- 32. A box weighing 2000 N is sliding across a cement floor. The force pushing the box is 500 N and the coefficient of sliding friction between the box and the floor is 0.20. What is the acceleration of the box ? ($g = 10m/s^2$)
 - (a) 0.5 m/s^2 (b) 1.0 m/s^2 (c) 1.5 m/s^2 (d) 2.0 m/s^2
- 33 A car of mass 200 kg is moving with a certain velocity. It is brought to rest by the application of brakes, within a distance of 20m. When the average resistance being offered to it is 500 N. What was the velocity of the motor car ?

(a) 9 m/s (b)
$$10 \text{ m/s}$$
 (c) 11 m/s (d) 12 m/s

- 34. Amber is a
 - (a) metal (b) rubber (c) resin (d) sugar
- 35. A student very cautiously traces the path of a ray through a glass slab for different value of the angle of incidence. He then measures the corresponding values of the angle of refraction and angle of emergence for every value of the angle of incidence. On analyzing these measurements of angles, his conclusion would be –

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	(a) $\angle i > \angle r > \angle e$	(b) $\angle i = \angle e > \angle$	ŕ	
	(c) $\angle i < \angle r < \angle e$	(d) $\angle i = \angle e > \angle$	ŕ	
36.	What are the monomers of	Nylon –6, 6		
	(a) Hexamethylenediamine	and Adipic acid		
	(b) Ethylene glycol and tere	ephthalic acid		
	(c) Ethylene glycol and Pht	thalic acid		
	(d) Hexamethylenediamine	e and Ethylene glycol		
37.	Which of the following is t	he correct arrangemen	t of the given	metals in ascending order of their
	reactivity ? Zinc, Iron, Mag	gnesium, Sodium		
	(a) Zinc > Iron > Magnesiu	ım > Sodium	(b) Sodiun	n > Magnesium > Iron > Zinc
	(c) Sodium > Zinc > Magn	esium > Iron	(d) Iron <	Zinc < Magnesium < Sodium
38.	The full form of EPNS is			
	(a) Electric Potential Neutr	cal switch (b) l	Electric Potent	tial Negative Switch
	(c) Electroplated Nickel Sil	lver (d) l	Electroplated I	Nickel Steel
39.	Name the substance which	is black with unplease	nt smell, mixt	ture of about 200 substances used in
	manufacturing various subs	stance like synthetic d	yes, drugs, exp	plosives, perfume etc.
	(a) Coke (b) C	Coal tar (c) C	Coal gas	(d) None of these
40.	Match the following from a	column A with column	ı B.	
	Column-A	Column - B		
	(i) CNG	(a) 50000		
	(ii) Coal	(b) 55000		
	(iii) Petrol	(c) 45000		
	(iv) LPG	(d) 25000 – 33000		
	(a) i-a, ii-c, iii-d, iv- a	(b) i- a, ii- c	, iii- d, iv- b	
	(c) i-a, ii-d, iii- c, iv- b	(d) i-b, ii-d,	iii-c, iv-a	
41.	Rough Endoplasmic Reticu	ulum is actively involv	ed in	
	(a) hormone synthesis	(b) protein s	synthesis	
	(c) lipid synthesis	(d) carbohy	drate synthesi	S
42.	The bacterium that causes l	botulism is		
	(a) a facultative aerobe	(b) an oblig	ate aerobe	
	(c) a facultative anaerobe	(d) an oblig	ate anaerobe	
43.	These are some of the endo	ocrine glands.		
	(a) Salivary, thyroid, adren	al, ovary, testes		
	(b) Pituitary, thyroid, adren	nal, ovary, testes		

- (c) Adrenal, ovary, testes, liver
- (d) Pituitary, salivary, adrenal, ovary, testes
- 44. Here are different stages of conception and child birth. Arrange them in the correct order.
 - (i) The ovum comes out of the ovary and reaches the fallopian tube.
 - (ii) Zygote undergoes cell division and forms the embryo.
 - (iii) Sperm reaches the fallopian tube and fertilization takes place.
 - (iv) Embryo gets implanted in the uterus and conception takes place.
 - (v) Embryo develops to foetus and then to a fully grown baby.
 - (a) iii, i, ii, iv, v (b) i, iii, iv, ii, v
 - (c) ii, iv, iii, i, v (d) i, iii, ii, iv, v
- 45. Late blight of potato is caused by-
 - (a) TMV (b) Xanthomonas oryzal
 - (c) Puccinia graminis (d) Phytophthora infestans

Aptitude (Reasoning-15)

Direction (1-2) : Find the missing term



50.	Find the next Number in the given series.							
	600, 690, 1536, 2457.6, 3932.16							
	(a) 7684.32	2	(b) 62	219.456	(c) 7864.32	2	(d) 6291.456	
51.	If $A + B >$	> C + D,	$\mathbf{B} + \mathbf{E} = 2$	2 C and C	+ D > B + E, it ne	cessarily	follows that :	
	(a) $A + B >$	> 2C	(b) A	+ B > 2D	(c) $A + B >$	> 2E	(d) $A > C$	
	Direction	(52-53)	: In a swi	imming r	ace five participa	nts. A, B,	C, D and E take part. La	ne 1 is
	extreme le	eft and 1	Lane 5 is	extreme	right. The followi	ng condit	ions exist.	
	(i) B and E	E are not	swimmin	ig adjacen	t to each other.			
	(ii) D is no	ot in one	of the ext	treme (ou	termost) Lanes.			
	(iii) A is to	the left	t of C.					
52.	If B is in I	Lane 3,	A is Lane	1, then C	could be.			
	(a) Lane 4	(b) Lane 2		(c) Lane 2 or 4	(d) Sit	tuation violates the condition	ons
53	If B is in I	Lane 4 a	nd C is in	Lane 3, t	hen E could be in	:		
	(a) Lane 1	(ł	o) Lane 2		(c) lane 1 or 2	(d) Sit	tuation violates the condition	ons.
54.	. A vagabond runs out of cigarettes. he searches of the stubs, having learnt that 7 stubs can make a						ke a	
	new cigarette, good enough to be smoked, he gather 49 if he smokes 1 cigarette every three quarters							
	of an hour,	, how lo	ng will hi	s supply l	ast ?			
	(a) 5.25 ho	our	(b) 6]	hours	(c) 4.5 hour	rs	(d) 3 hours	
55.	23:72::3	38:?						
	(a) 110		(b) 11	.7	(c) 123		(d) 112	
56.	In the following letter series, how many M's are followed by N, but not preceded by N?							
	NMWVM	NMVW	NMNMN	INWVMI	N			
	(a) 1		(b) 2		(c) 3		(d) 4	
57.	. If 'REASON' is coded as 5 and 'BELIEVED' as 7, then what is the code number for							
	'GOVERN	IMENT	'?					
	(a) 10		(b) 6		(c) 9		(d) 8	
58.				g questio	ns have been arran	ged accor	ding to an identical pattern.	. Find
	out the mis	ssing nu	mbers.	1	-			
	2	9	11	7				

	2	9	11	7	
	8	5	13	-3	
	7	?	10	-4	
	6	4	10	?	
(a) 3 and (-2)			(b) (-3) and (-2)		

(c) 3 and 2

(d) (-3) and 2

Class-8th

59. Introducing a boy, a girl says, He is the son of the only sister of my mother's brother'. How is the boy related to that girl ?

(a) Father-in-law
(b) Brother
(c) Cousin
(d) Niece
60 Count the total no. of triangle
(a) 25
(b) 28
(c) 30
(d) 35

SPACE FOR ROUGH WORK

