

SOS Hermann Gmeiner School Sanothimi

Time: 2 hours

Full Marks: 60

Entrance Exam 2082/Grade VII Model Question

Instructions:

- There are altogether 60 questions. For every correct answer from Question No. 1 to 51, candidates will be awarded with1 full mark except question number 52 to 59 which carry 0.5 marks each and question number 60 that carries 5 marks.
- There won't be any **negative marking in case of wrong answers**.
- Use of pencil and calculator is prohibited.

	Read the questions car	efully and Tick ($$) the co	rrect answer under the	e options a, b, c and d	
1.	The property of diffe	ısion is			
	a. based on motion of	particles	b. slowest in liqui	ids	
	c. fastest in gases		d. all of the above	2	
2.	Name the technique which is used to separate two different dissolved liquids present in a solution in very small quantities				
	a. chromatography	b. distillation	c. filtration	d. crystallization	
3.	At higher altitude				
	a. melting point of solid increases		b. boiling point of liquid increases		
	c. no change in boiling point		d, boiling point of liquid decreases		
4.	Which of the following is not a matter?				
	a. Sound	b electron	c. moon rock	d. blood	
5.	The baking soda solution is				
	a. acidic	b, basic	c. neutral	d. amphoteric	
6.	Which of the following is not an atmospheric pollutant?				
	a. Carbon dioxide	b Nitrogen dioxide	c. Helium	d Sulphur dioxide	
7.	What is the function of the mucous glands in amphibian skin?				
	a. Regulate body temperature		b. Aid in breathing		
	c. Produce toxins for defense		d. Keep the skin moist and protected		

8. What is the primary function of the diaphragm in mammais?						
	a. Pump blood		b. Digest food			
	c. Aid in breathing		d. Regulate body t	emperature		
9.	Which of the follow	ing factors contributes p	ositively to environme	ntal balance?		
	a. Deforestation and	habitat destruction	b. Pollution and w	vaste accumulation		
	c. Sustainable resour	ce management and cons	ervation efforts			
	d. Overexploitation	of natural resources for sh	ort-term gain			
10.	Which of the follow	ing correctly describes t	he flow of energy in a g	razing food chain?		
	a. Producers to decor	a. Producers to decomposers to primary consumers to secondary consumers				
	b. Producers to prima	ary consumers to seconda	ry consumers to decomp	osers		
	c. Producers to prima	orimary consumers to secondary consumers to tertiary consumers				
	d. Producers to decor	mposers to secondary con	sumers to primary consu	imers		
11.	Which enzyme is res	sponsible for breaking d	lown proteins into pept	ides?		
	a. Amylase	b. Lipase	c. Protease	d. Nuclease		
12.	Among the following	g options, which one do	es not belong to the gro	up?		
	a. Salmon	b. Tuna	c. Trout	d. Ostrich		
13.	Many lizards have t an example of:	the ability to change col	or to blend in with thei	r surroundings, which is		
	a. Endothermy	b. Viviparity	c. Camouflage	d. Thermoregulation		
14.	Which of the follow	ing is an example of a de	etritivore in a forest eco	osystem?		
	a. Hawk	b. Earthworm	c. Deer	d. Oak tree		
15.	Choose the correct s	sequence of organs invol	ve in human digestive s	system.		
	a. Mouth- Esophagus- Pharynx- Stomach-Small Intestine-Large Intestine -Rectum					
	b. Mouth- Pharynx- Stomach-EsophagusSmall Intestine-Large Intestine -Rectum					
	c. Mouth-Stomach-Esophagus- Mouth-Small Intestine-Large Intestine -Rectum					
d. Mouth- Pharynx -Esophagus-Stomach-Small Intestine-Larg				ine -Rectum		
16. What happens to the kinetic energy of a body w			ly when its velocity is d	oubled?		
	b. Kinetic energy becomes three times of the initial kinetic energy.					
	c. Kinetic energy ch	nanges by four times of th	e initial kinetic energy.			
	d. Kinetic energy ch	nanges by three times of the	he initial kinetic energy.			

	a. The image formed by a pinhole camera is inverted.					
	b. A pinhole camera is a simple camera having a lens and with a single pinhole.					
	c. A collection of rays of light is called a beam of light.					
	d. Light travels in a str	aight line, this property of	light is called rectiline	ear propagation of light.		
18.	Order of substances in is:	terms of increasing orde	er of velocity of sound	l through the substance		
	a. Steel, Ocean water, Fresh water, Air		b. Fresh water, Ocean water, Air, Steel			
	c. Steel, Fresh water, Ocean water, Air		d. Air, Fresh water, Ocean water, Steel			
19.	The largest natural sat	tellite is				
	a. Moon	b. Ganymede	c. Demos	d. Phobos		
20.	Which metal is used to make fuse wire?					
	a. Zinc	b. Lead	c. Tin	d. Tin and Lead		
21.	Which of the following	ich of the following fractions does not equal to 0.8 ?				
	a. $\frac{40}{50}$	b. $\frac{12}{15}$	c. $\frac{16}{20}$	d. $\frac{15}{75}$		
22.	$\frac{34}{100}$ lies between					
	a. 0.3 and 0.33	b. 0.35 and 0.39	c. 0.3 and 0.35	d. 0.35 and 0.36		
23.	What is the n th term of	f the sequence 4, 6, 8, 10,	?			
	a. 5n	b. 2n+2	c. 2n+3	d. 5n+3		
24.	What is sum of the pri	me numbers less than 10	?			
	a. 26	b. 18	c.17	d. 15		
25.	The total surface area of a cube with volume 1000 m ³ is					
	a. 60 m^2	b. 100 m ²	$c. 40 \text{ m}^2$	$d.600 \text{ m}^2$		
26.	What is the sum of exterior angles of a polygon?					
	a. 60°	b. 120°	c. 180°	d. 360°		
27.	If $x + 11 = 9$ and $xy = 20$, what is the value of $(x - y)^2$?					
	a. –144	b. 144	c.64	d. –64		
28.	The ratio of 80 m to 4 km is					
	a. 50:1	b. 1: 50	c. 1:5	d. 5:1		

17.

Choose the incorrect statement:

29.	What is the cube root of 512?				
	a. 6	b. 8	c. 10	d. 12	
30.	The product of 0.002 a	nd 0.5 is			
	a. 0.01	b. 0.001	c. 0.0001	d. 0.1	
31.	The ratio of two compl	ementary angles is 1:2. T	The angles are		
	a. 30° and 60°	b. 45° and 90°	c. 60° and 120°	d. 50° and 100°	
32.	If the average of 10, 30	, 20, x and 40 is 30, find t	he value of x.		
	a. 20	b. 30	c. 40	d. 50	
33.	What is the sum of all	possible factors of 20 ?			
	a. 42	b. 22	c. 28	d. 16	
34.	The product of $(x + 3y)$	$(x^2 - 3xy + 9y^2)$ is			
	a. $x^3 + 3y^3$	b. $x^3 - 3y^3$	c. $x^3 - 27y^3$	d. $x^3 + 27y^3$	
35.	The simple interest on Rs.1000 for 2 years at the rate of 12% is				
	a. Rs.2400	b. Rs.240	c. Rs.120	d. Rs. 60	
36.	What is the value of (2	5+1.5) (6.25-3.75+2.25) ?			
	a. 19	b. 15	c. 7	d. 16	
37.	In which of the following	ng figures can be drawn	the minimum number	r of symmetric lines ?	
	a.	b.	c.	d.	
38.	The H.C.F. of 60, 90 ar	nd 180 is			
	a. 18	b. 60	c. 24	d. 30	
39.	Which of the following	is a prime number?			
	a. 35	b. 19	c. 87	d. 32	
40.	If the cost price of a pe	n is Rs. 100 and its selling	g price is Rs. 120 then	the profit percent is	
	a. 10%	b. 20%	c. 30%	d. 40%	
Read	the following passage a	nd answer question No. 4	1 to 45.		
Philo	sophy of Education is a	label applied to the study	of the purpose, proces	ss, nature and ideals of	
educa	ation. It can be considered	a branch of both philosop	hy and education. Educ	cation can be defined a	

Philosophy of Education is a label applied to the study of the purpose, process, nature and ideals of education. It can be considered a branch of both philosophy and education. Education can be defined as the teaching and learning of specific skills, and the imparting of knowledge, judgement and wisdom, and is something broader that the societal institution of education we often speak of.

Many educationalists consider it a week and wooly field, too far removed from the practical applications of the real world to be useful. But philosophers dating back to Plato and the Ancient Greeks have given the area much thought and emphasis, and there is little doubt that their work has helped shape the practice of education over the millennia.

Plato is the earliest important educational thinker, and education is an essential element in "The republic "(his most important work on philosophy and political theory, written around 360 B.C). In it, he advocates some rather extreme methods: removing children from their mothers' care and raising them as wards of the state, and differentiating children suitable to the various castes, the highest receiving the most education, so that they could act as guardians of the city and care for the less able. He believed that education should be holistic, including facts, skills, physical discipline, music and art. Plato believed that talent and intelligence is not disturbed genetically and thus is found in children born to all classes although his proposed system of selective public education for an educated minority of the population does not really follow a democratic model.

Aristotle considered human nature, habit and reason to be equally important forces to be cultivated in education, the ultimate aim of which should be to produce good and virtuous citizens. He proposed that teachers lead their students systematically, and that repetition be used as a key tool to develop good habits, unlike Socrates emphasis on questioning his listeners to bring out their own ideas. He emphasized the practical aspects of subjects taught, among which he explicitly mentions reading, writing, mathematics, music, physical education, literature, history, and a wide range of sciences, as well as play, which he also considered important.

During the Medieval period, the idea of Perennialism was first formulated by St. Thomas Aquinas in his art work "De Magistro". Perennialism holds that one should teach those things deemed to be of everlasting importance to all people everywhere, namely principles and reasoning, not just facts (which are apt to change over time), and that one should teach about people, not machines or techniques. It was originally religious in nature, and it was only much later that a theory of secular perennialism developed.

During the Renaissance, the French skeptic Michel de Montaigne (1533-1592) was one of the first to critically look at education. Unusually for his first time, Montaigne was willing to question the conventional wisdom of the period, calling into question the whole edifice of the educational system, and the implicit assumption that university-educated philosophers were necessarily wiser than uneducated farm workers.

41. What is the difference between the approaches of Socrates and Aristotle?

- a. Aristotle felt the need for rote-learning: Socrates emphasized on dialogic learning.
- b. Aristotle felt the need for repetition to develop good habits in students; Socrates felt the need to be constantly questioned.
- c. Aristotle emphasized on the importance of paying attention to human nature; Socrates emphasized upon science.
- d. There is no difference

42. Why do educationists consider philosophy a 'weak and woolly' field?

	b. Its theoretical co	oncepts are easily understoo	od.		
	c. It is irrelevant fo	or education.			
	d. None of the abo	ve			
43.	The term 'Perer something		of the given comprel	hension passage refers to	
	a. Which is quite t	innecessary.			
	b. Which is of ceas	seless importance.			
	c. Which is abstrac	et and theoretical.			
	d. Which is existed	l in the past and no longer	exists now.		
44.	What were Plato'	What were Plato's beliefs about education?			
	a. He believed that only the rich have the right.				
	b. He believed peo	ple are democratic.			
	c. He believed that	only a select few are mean	nt to attend schools.		
	d. He believed that	all pupils are not talented.			
45.	Why did Aquinas propose a model of education which did not lay much emphasis on facts?				
	a. Facts are not important.				
	b. Facts do not lead	d to holistic education.			
	c. Facts change with	th the changing times.			
	d. Facts are frozen	in time.			
46.	The widower murmured in grief, "Shall I ever forget her?" The indirect speech of it is				
	a. The widower wondered if he would ever forget her.				
	b. The widower said that he should never forget her.				
	c. The widower asked me whether he would ever forget her.				
	d. The widower said that he would always remember his wife.				
47.	Have you reminded the maid that you wantearly in the morning?				
	a. to wake		b. to have been a	wakened	
	c. to have awakene	ed	d. to be awaken		
48.	I want tothese exercises before I give them to the teacher.				
	a. look over	b. count on	c. keep on	d. point out	
49.	What really surp	rised everybody was that	he saved the company	from bankruptcy quite	
	a. competently	b. relatively	c. decidedly	d. scarcely	

a. It is not practically applicable.

50.	'A man mustn't think that his task is too difficult before he begins doing.' It means				
	a. Everything comes to him who waits.				
	b. Live not to eat but eat to live.				
	c. Keep your mouth shur	t and your eyes open.			
	d. Don't cross the bridge	e before you come to it.			
51.	If theywhat sort	of a person he was, the	yhim their s	support.	
	a. would know/didn't give			b. knew/won't give	
	c. had known/wouldn't l	nave given	d. would have know	n/hadn't given	
	(Q	uestion No. 52 to 59 ca	rry 0.5 marks each)		
52.	one-legged race the competitors ran was worth watching, wasn't it?				
	a. A	b. An	c. The	d. X (Nothing)	
53. I	wonder why governmen	t officials always write	black ink.		
	a. on	b. at	c. by	d. in	
54.	The teacher had the students complete their assignment,?				
	a. hadn't they	b. hadn't he	c. didn't he	d. did he	
55.	Diabetes	many people around th	ne world.		
	a. have affected	b. has affected	d. is affected	d. are affected	
56.	He is very bright, andall the competitions.				
	a. goes into	b. gives out	c. gives in	d. goes in for	
57.	Which one of the following words is spelt correctly?				
	a. hierarchy	b. arguement	c. greatfully	d. amateure	
58.	If something "rings a bell" it				
	a. makes a lot of noise	b. is frightening	c. sounds familiar	d. plays with a ring	
59.	tense is used to describe action that occurred after another past action.				
	a. Past Perfect		b. Past simple	b. Past simple	
	c. Past Perfect Continuous		d. Past Continuous	d. Past Continuous	

60.	Happiness in Life."	(5)