## MAHARAJA RANJIT SINGH ARMED FORCES PREPARATORY INSTITUTE

#### **Entrance Test**

# **Sample Question Paper-1 (English)**

Date:-30 Jan, 2011 AM (90 minutes)		Time-10.30 AM to 12.00
	Max Marks: 75	

#### **General Instructions:-**

- I. All questions are compulsory and carry equal marks.
- II. There will be negative marking for incorrect answer. One fourth marks will be deducted from the total marks scored.
- III. There is only one correct answer. Hence mark one choice only.
- IV. Total number of questions is 75.
- V. Answers are to be marked on O.M.R. Sheets only.
- VI. Please remember this is a competitive Exam, so do not cheat or permit anybody to do so.

1. Choose the word closest in meaning:-Remedial (a) punitive (b) stringent (c) corrective (d) strict 2. Choose the word closest in meaning:-Revamp (a) retreat (b) reconstruct (c) retrial (d) retrace 3. Choose the word closest in meaning:-Stingy (a) violent (b) miserly (c) cautious (d) quarrelsome 4. Choose the word closest in meaning:digress (a) deviate (b) come back (c) slow down (d) remove 5. Choose the word closest in meaning:kindle (a) show kindness (b) incite (c) helpful (d) vindicate 6. Choose the word furthest in meaning:superficial (a) profound (b) difficult (c) secretive (d) mystical 7. Choose the word furthest in meaning:-Coarse (a) pleasing (b) rude (c) polished (d) soft 8. Choose the word furthest in meaning:-Cite (b) conceal (c) sight (a) good (d) place 9. Choose the word furthest in meaning:-Vigilant (b) ignorant (c) irresponsible (d) innocent (a) careless 10. Choose the word furthest in meaning:-Catastrophe (b) disaster (c) blessing (a) calamity (d) storm 11. Choose the misspelt word:-(a) over estimate (b) conceivable (c) euthanasia (d) disobediance 12. Choose the misspelt word:-(a)influenza (b) adolescense (c) galore (d) secularism

(a) confiscate (b) seismology (c) pituatary (d) bonanza
14. Choose the misspelt word :-
(a) heamoglobin (b) haemoglobin (c) hamoglobin (d) hemoglobin
15. Choose the misspelt word :-
(a) anihilate (b) annilate (c) annhilate (d) annihilate
16. Choose the most suitable word :-
A school boy who cuts classes frequently is a
(a) truant (b) delinquent (c) sycophant (d) martinet
17. Choose the most suitable word :-
A place where bees are kept is called
(a) an apiary (b) an aviary (c) a hive (d) a sanctuary
18. Choose the most suitable word :-
An imaginary name assumed by an author as disguise is a
(a) pseudonym (b) nickname (c) pet name (d) homonym
19. Choose the most suitable word:-
A person who uses computers to gain unauthorized access to data
(a) nitwit (b) hacker (c) hawker (d) sneak
20. Choose the most suitable word:-
Art of garden cultivation
(a) landscape (b) sericulture (c) horticulture (d) farming

13. Choose the misspelt word:-

## 21. Read the passage and answer the question by choosing the right answer:-

Due to media and communication explosion and the effect of globalization, markets all over the world are going through a phase of metamorphosis. The visual media is regularly exposing a newer lifestyle, products and services to the fast-expanding netizen-driven society. Today, consumers have become quite concerned about health issues and are taking a great interest in food matters.

the gro	een movement supported by media coverage has been creating urge for natural food.
Accor	ding to the passage, the major concern of the consumers is :
(a)	Urge for natural food
<b>(b)</b>	Environmental issues
(c)	Health and food matters
( <b>d</b> )	Support for the Green movement
away	Laws of nature are not commands but statement of acts. The use of the word 'law' in this t is rather unfortunate. It would be better to speak of uniformities of nature. This would do with the elementary fallacy that a law implies a law of giver. If a piece of matter does not obey ws of nature, it is not punished. On the contrary, we say that the law has been incorrectly
Accor	ding to the passage, the laws of nature based on observation are
(a)	Conclusive about the nature of the universe
<b>(b)</b>	True and unfalseable
(c)	Figment of the observer's imagination
(d)	Subject to change in the light of new facts.
23.	Choose the most appropriate word:-
She ha	s been living in the U.S. for nearly 10 years but still she to the traditional
Indian	values.
(a) adl	nesive (b) adheres (c) adopts (d) acknowledges
24.	Choose the most appropriate word:-
I	that the door was locked properly when I left home
(a)	Assured (b) guaranteed (c) ensured (d) swore

Environmental issues, greater segmentation and increased mobility are the added factors. Besides,

The accident was because of the driver's presence of mind.
(b) Avoided (b) evaded (c) thwarted (d) averted
26. Choose the most appropriate word:-
We are now confident about the fact that meetings held on a weekly basis are most
(a)Correct (b) appropriate (c) right (d) clear
27. Choose the most appropriate word:-
The mother put her work to attend to the baby who was crying
(a) a side (b) aside (c) away (d) off
28. Choose the meaning of the idiom: A big gun
(a) A cannon (b) anti-aircraft (c) an important person (d) a giant
29. Choose the meaning of the idiom: Second nature
(a) A firm habit (b) bad temper (c) wavering nature (d) super intelligence
30. Choose the meaning of the idiom: To eat humble pie
(a) A voracious eater (b) to behave insolently
(c) to accept humiliation (d) to face defeat
31. Choose the meaning of the idiom: To sow wild oats
(a) To do some mischief (b) to do some act of madness
(c) in indulge in youthful frivolities (d) to boast of oneself

25.

Choose the most appropriate word:-

32. Choose the meaning of the idiom: To flog a dead horse
(a)To waste one's energy (b) to waste one's money (c) to kill someone
(d) to encourage
33. Complete the sentence using a suitable choice:-
Sirius is related to star in the same way as Pluto is related to
(a) Planet (b) asteroid (c) earth (d) meteor
34. Complete the sentence using a suitable choice:-
Palm is related to hand in the same way as sole is related to
(a) Leg (b) ankle (c) knee (d) foot
35. Complete the sentence using a suitable choice:-
Statue is related to shape in the same way as song is related to
(a) Beauty (b) sing (c) tune (d) poetry
36. Complete the sentence using a suitable choice :
Labourer is related to wages in the same way as entrepreneur is related to
(a) loan (b) interest (c) taxes (d) profit
37. Complete the sentence using a suitable choice :
Kilometer is related to distance in the same way as poundal is related to
(a) density (b) acceleration (c) momentum (d) force

38. Complete the sentence by choosing the correct collective noun from the options:-
The hunter spotted a near the lake
(a) brace of game birds (b) swarm of game –birds (c) group of game birds
39. Complete the sentence by choosing the correct collective noun from the options:  The Rashtrapathy Bhawan has a
(a) Collection of rooms (b) suite of rooms (c) gathering of rooms
40. Complete the sentence by choosing the correct collective noun from the options:  The police was called in to disperse a who turned violent.  (a) family of rioters (b) crowd of rioters (c) mob of rioters
41. Complete the sentence by choosing the correct collective noun from the options: was found to be damaged at the party.
(a) A part of furniture (b) An item of furniture (c) A piece of furniture
42. Complete the sentence by choosing the correct collective noun from the options:
Many villagers in my native place have a in their farm.
(a) flock of chickens (b) swamp of chickens (c) brood of chickens
43. Choose the correct preposition :
President Saddam Hussain has livedthe gun all his life.
(a) with (b) for (c) by (d) on
44. Choose the correct preposition:  I am afraid she's not here the moment.

(a) for	r (b) from (c) at (d) by
45.	Choose the correct preposition:
Chris	is getting married this year.
(a) at	(b) on (c) by (d) in
46.	Choose the correct preposition:
I don'	t like traveling night.
(a) by	(b) at (c) in (d) on
47.	Choose the correct preposition:
Hari is	s 63. He'll be retiring from his job two years time.
(a) by	(b) in (c) from (d) at
48. an	Each of the following sentence is divided in four parts (a,b,c,d) one of which might contain
error.	Spot the error and mark that part of the sentence as the answer.
Yester	rday (a) / one of (b) / the teachers (c) / was called by the office (d)
49. an	Each of the following sentence is divided in four parts (a,b,c,d) one of which might contain
error.	Spot the error and mark that part of the sentence as the answer:
I neve	r (a) / remember (b) / to have met (c) / this gentleman in Baroda (d).
50.	Each of the following sentence is divided in four parts (a,b,c,d) one of which might contain
an err	or. Spot the error and mark that part of the sentence as the answer:
The ti	ming (a) / of these strikes (b) / were (c) / poorly planned by the union (d)
51. an	Each of the following sentence is divided in four parts (a,b,c,d) one of which might contain
error.	Spot the error and mark that part of the sentence as the answer:

52. an	Each of the following sentence is divided in four parts (a,b,c,d) one of which might contain
error.	Spot the error and mark that part of the sentence as the answer:
Every	(a) / man, woman and child are now (b) /aware of the (c) / terrible consequences of
smokin	ng (d)
53.	Construct the correct sentence using the sentence fragments:
P – an i	interactive tool to.
Q – ava	ailable via the World Wide Web.
R – a w	veb search engine is.
S - hel	p people locate information.
(a) RP	SQ (b) RQSP (c) PSRQ (d) QRPS
54.	Construct the correct sentence using the sentence structure :
He four	nd the house <u>and knocked at / without any difficulty</u> / <u>the door</u> / <u>twice</u>
P	Q R S
(a) PR	SQ (b) QRSP (c) RPQS (d) QPRS
55.	Construct the correct sentence using the sentence structure :
P - with	h a place to type in
Q - to s	submit the request
R - a se	earch string and a way
S - the	interface presents the user

 $\hbox{ (a) } SRQP \qquad \hbox{ (b) } RQPS \qquad \hbox{ (c) } PRQS \qquad \hbox{ (d) } SPRQ \\$ 

 $I\ (a)\ /\ watched\ (b)\ /\ him\ (c)\ /\ fell\ (d)$ 

56. Construct the correct sentence using the sentence structure:
P is a disease
Q which is as
R common as common cold
S dental decay
(a) RPSQ (b) SQRP (c) QRPS (d) SPQR
57. Construct the correct sentence using the sentence structure:
Women / till the other day / who were content being house wives /
P Q
about spending their time cooking / now sound apologetic
R S
(a) PQRS (b) RSPQ (c) QPSR (d) RQPS
58. Complete the following sentences using appropriate choice:
Besides being educated, he is intelligent. He is
(a) not only intelligent but also educated
(b) neither intelligent nor educated
(c) either intelligent or educated
(d) mare intelligent and educated
59. Complete the following sentences using appropriate choice:
The man will carry the trophy
(a) who would score the maximum points
(b) who the maximum points scores

(c) who will score the maximum points	
(d) who scores the maximum points	
60. Complete the following sentences using appropriate choice:	
The teacher asked me	
(a) what your name is	
(b) what was my name	
(c) what my name was	
(d) what is your name	
61. Complete the following sentences using appropriate choice:	
They of all the facts.	
(a) are not beware	
(b) are not aware of	
(c) are not to be aware	
(d) are not aware	
62. Read the passage carefully and complete the fill ups by choosing the right option:	
In the sixteenth century, an age of great marine and terrestrial exploration, Ferdinand Magella: led the first expedition to sail around the world. As a young Portuguese noble, he served the kin	

who will soons the marinum naints

In the sixteenth century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favor. After he was dismissed from service to the king of Portugal, he offered to serve the future Emperor Charles V of Spain.

A papal decree of 1943 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near a latitude of 50 degrees S. Magellan named this passage the Strait of All Saints, but today we know it as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain , so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian we now call the International Date Line in the early spring of 1521 after ninety-eight days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease.

Later Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and seventeen sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

The	sixteenth century was an age of great exploration
(a)	cosmic
<b>(b)</b>	land
(c)	common man
(d)	mental
(e)	none of the above
63.	Magellan lost the favor of the king of Portugal when he became involved in a political
(a)	entanglement
<b>(b)</b>	discussion
(c)	negotiation
(d)	problems
(e)	none of the above
64.	The Pope divided New World lands between Spain and Portugal according to their location
	one side or the other of an imaginary geographical line 59 degrees west of Greenwich that ends in a direction
(a)	north and south
<b>(b)</b>	crosswise

68.	In the spring of 1521, the ships crossed the now called the international Date Line
(e)	Madrid
(d)	Portugal
(c)	Spain
<b>(b)</b>	equator
(a)	Greenwich
67.	The passage was found near 50 degrees of
(-)	
(e)	answer not available
(d)	border
(c)	body of land with water on three sides
(b)	island
(a)	coast
66.	Four of the ships sought a passage along a southern
(e)	none of the above
( <b>d</b> )	islands
(c)	physical features
<b>(b)</b>	mountain range
(a)	coastline
65. the	One of Magellan's ships explored the of South America for a passage across continent
(e)	easterly
(d)	north and west
<b>(c)</b>	south east

imaginary circle passing through the poles (a) **(b)** imaginary line parallel to the equator **(c)** area (d) land mass answer not found in article (e) **69.** Read the passage carefully and complete the fill ups by choosing the right option: Marie Curie was one of the most accomplished scientists in history. Together with her husband, Pierre, she discovered radium, an element widely used for treating cancer n, and studied uranium and other radioactive substances. Pierre and Marie's amicable collaboration later helped to unlock the secrets of the atom.

Marie was born in 1867 in Warsaw, Poland , where her father was a professor of physics. At the early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she definitely left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse – drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Noble Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.

The Curies'	collaboration	helped to	unlock the	secrets of tl	ie atom

(a)	friendly
<b>(b)</b>	competitive
(c)	courteous
(d)	industrious
(e)	chemistry
70.	Marie had a bright mind and a personality
(a)	strong
<b>(b)</b>	lighthearted
(c)	humorous
( <b>d</b> )	strange
(e)	envious
71.	When she learned that she could not attend the university in Warsaw, she felt
(a)	hopeless
<b>(b)</b>	annoyed
(c)	depressed
( <b>d</b> )	worried
(e)	none of the above
72.	Marie by leaving Poland and traveling to France to enter the Sorsonne.
(a)	challenged authority
<b>(b)</b>	showed intelligence
(c)	behaved
( <b>d</b> )	was distressed
(e)	answer not available

<b>73.</b>	she remembered their joy together
(a)	dejectedly
<b>(b)</b>	worried
(c)	tearfully
( <b>d</b> )	happily
(e)	sorrowfully
74.	Her began to fade when she returned to the Sorbonne to succeed her husband
(a)	misfortune
<b>(b)</b>	anger
(c)	wretchedness
(d)	disappointment
(e)	ambition
<b>75.</b>	Even though she became fatally ill from working with radium, Marie Curie was never
(a)	troubled
<b>(b)</b>	worried
(c)	disappointed
( <b>d</b> )	sorrowful
(e)	disturbed

## MAHARAJA RANJIT SINGH ARMED FORCES PREPARATORY INSTITUTE

#### **Entrance Test**

# **Sample Question Paper-1 (English)**

Date:-30 Jan, 2011 AM (90 minutes)		Time-10.30 AM to 12.00		
	Max Marks : 75			

### **General Instructions:-**

- I. All questions are compulsory and carry equal marks.
- II. There will be negative marking for incorrect answer. One fourth marks will be deducted from the total marks scored.
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1.	Choo	se the word closest	in meaning: Robu	st
(a)	wear	(b) useless	(c) strong	(d) stupid
2.	Choo	se the word closest	in meaning: Impo	oster
(a)	tyrant	(b) lazy (c) che	eat (d) pain	ful
3.	Choo	se the word closest	in meaning:Omn	ipotent
(a)	all-knowin	g (b) all – powerfu	ıl (c) ever – lasting	(d) all - merciful
4.	Choo	se the word closest	in meaning: Plani	ned.
(a)	assumed	(b) created	(c) guessed	(d) calculated
5.	Choo	se the word closest	in meaning: Rend	lezvous
(a)	resort	(b) public plac	e (c) hiding place	(d) meeting place
6.	Choo	se the word furthes	t in meaning: Der	rogatory
(a)	charitable	(b) honourable	(c) creditable	(d) reliable
7.	Choo	se the word furthes	t in meaning: Obs	scure
(a)	famous	(b) respectable	(c) decent	(d) affluent
8.	Choo	se the word furthes	t in meaning : Init	iated
(a)	complicate	d (b) damper	(c) closed	(d) confused
9.	Choo	se the word furthes	t in meaning : Ca	llous
(a)	capable	(b) hardened	(c) sentimental	(d) confidence
10.	Choos	se the word furthes	t in meaning: Ma	sk
(a)	hit	(b) expose	(c) injure	(d) deface
11.	Choos	se the word that is	spelt right:	
(a)	psuedonyn	n (b) pseudonym	(c) pseudonim	(d) psuedonim
12.	Choos	se the word that is s	pelt right :	
(a)	conscientio	ous (b) conscientus	(c) concientious	(d) conscientous
13.	Choos	se the word that is r	nisspelt :	

(a) interferance (b) hypothesis (c) suppression (d) circumference	
14. Choose the word that is spelt right :	
(a) guerila (b) guerilla (c) gourilla (d) guarilla	
15. Choose the word that is misspelt:	
(a) hoary (b) niche (c) dilamma (d) boutique	
16. Choose the most suitable word : Call upon god or any other power for help or pre:	otection
(a) invocation (b) involution (c) grace (d) revocation	
17. Choose the most suitable word : A person with a long experience of a profession	:
(a) veteran (b) genius (c) novice (d) workaholic	
18. Choose the most suitable word : One who has become dependent on something	
(a) drunkard (b) edict (c) addict (d) derelict	
19. Choose the most suitable word : A book in its original handwritten form is called	la:
(a) proof (b) script (c) galley (d) manuscript	
20. Choose the most suitable word : Animals that can live both on land and in water	are:
(a) amorphous (b) amphibians (c) frog (d) versatile	
21. Read the passage and answer the question by choosing the right answer:-	
The word 'hotel' means mansion in French, implying a high level of comfort, luxury and poservice. A hotel provides private accommodation, usually with food and beverage so on the same premises and maintains a full-time service staff. As automobiles and travel became popular, motor hotels or motels became a prominent component of the travel lodging industries. A motel provides ample parking space for automobiles.	ervice
Which of the statements is false?	
(a) Mansion is a French equivalent of hotel in English.	
(b) Motorists are not entertained in a hotel.	
(c) A hotel usually serves food and beverages.	
(d) Usually private accommodations are costly because these maintain a full-time service	staff.

Read the passage and answer the question by choosing the right answer :

22.

A French General was once conducting his army through a very difficult pass in a range of high mountains. He exhorted his soldiers to bear patiently the fatigue of the march. "It is easy for you to talk", muttered one of the soldiers near him to his companions;" you are mounted on a fine horse but we poor wretches have to tramp on foot." The general overheard the remark and insisted on the discontented soldier taking his place but scarcely had he mounted than a shot from the mountain side struck and killed him.
The passage describes:-
(a) a revolt in the army (b) an altercation with the general
(c) quarrelling soldiers (d) a fateful event
23. Choose the most appropriate word: The college affected a record number of to the science course this year:
(a) admittance (b) entries (c) admissions (d) students
24. Choose the most appropriate word: The passengers were asked toaccepting eatables from co-passengers :
(a) evade (b) refuse (c) avoid (d) reject
25. Choose the most appropriate word: The boy his mother that he would certainly do well in the
examination.
(a) assured (b) ensured (c) guaranteed (d) swore
26. Choose the most appropriate word: People were with anger and fear by the series of bomb blasts.
(a) roused (b) filled (c) aroused (d) red
27. Choose the most appropriate word: The man was by the sound of the alarm early in the morning.
(a) woke up (b) roused (c) aroused (d) arise
28. Choose the meaning of the idiom: To beat the air
(a) to make angry gestures (b) to swing a stick
(c) to make a futile effort (d) to do physical exercises
29. Choose the meaning of the idiom: To come round
(a) to visit (b) to move in circles (c) to accept an agreement (d) casual visit
30. Choose the meaning of the idiom: To make a clean breast of

(a) to have a	an elaborate	bath (b) t	o clear one's	throat befor	e speaking	
(c) to dress	a chicken	(c) to	admit one's r	nistake unre	eservedly	
31. Cho	oose the mea	ning of the	idiom: To 1	ise like a ph	oenix	
(a) to resem	ble a phoeni	x	(b) to rise w	ith a new lif	e after an ordea	1
(c) to rise w	ith anger		(d) to get up	with the sta	rt	
32. Che	oose the mea	ning of the	e idiom: To v	vrangle ove	an ass's shadov	v
(a) to act in	a funny mar	ner (b) to	quarrel over	trifles (c) t	o waste money	(d) to struggle
	mplete the se tion is relate		ng a suitable	choice : Info	estation is relate	d to food in the same
(a) germs	(b) dis	seases	(c) body	(d) m	icrobes	
	mplete the se re is related t		ng a suitable	choice : Vi	ctory is related t	o happiness in the same
(a) defeat	(b) ang	ger	(c) frustrat	ion	(d) sadness	
	mplete the se is related to :		ng a suitable	choice: Wo	od is related to c	harcoal in the same
(a) fire	(b) sn	noke	(c) coke (d)	ash		
	mplete the se ohydrates ar		_	choice. Prot	eins are related	to growth in the same
(a) energy	(b) str	ength	(c) resistar	nce	(d) disease	s
	mplete the se ision is relate		ng a suitable	choice: Com	mand is related	to order in the same
(a) disciplin	e	(b) clar	rity (c	) chaos	(d) problem	n
	mplete the se	•				the options : There the Chief Ministers life
(a) group of	events	(b) chai	n of events	(c) col	lection of events	:
	_	-	choosing the ways a			the options: When I my table.
(a) group of	f books	(b) seri	es of books	(c) he	ap of books	(d) none of these

40. reporte			rect collective noun from t e press conference at the mi	
(a) vol	lley of questions (	b) group of questions	(c) stock of questions	(d) none of these
	_	•	rrect collective noun from t ght from the Sangam perio	_
(a) gro	oups of coins	(b) collection of series	(c) series of coins	(d) none of these
	-	ence by choosing the corra, one can see a	rrect collective noun from t	he options: During
(a) cor of these		ppers (b) crowd of w	vorshippers (c) fleet of wor	rshippers (d) none
43. Day.	Choose the correct	t preposition: The quee	en's speech is broadcast	Christmas
(a) at	(b) on	(c) in	(d) around	
			R	oll No
44. to go b	Choose the correctefore the New Year.	t preposition:- It's a qu	artermidnight	; only fifteen minutes
(a) at	(b) to	(c) for	(d) since	
45.	Choose the correct	t preposition: I don't lil	ke travellingr	night.
(a) by	(b) at	(c) in	(d) on	
46. help	Choose the correct	t preposition: Finding n	nyself short mon	ey, I wrote to him for
(a) in	(b) of	(c) with (d)	at	
47.	Choose the correct	t preposition: The rainf	all in India varies from yea	aryear
(a) at	(b) by	(c) to	(d) in	
48. contair		0	in four parts (a, b, c, d) one rt of the sentence as the ans	0
He is (a	a) / senior (b) / than	me (c)/in service (d).		
49. error.	_	ence is divided in four p nark that part of the ser	parts (a, b, c, d) one of which tence as the answer.	h might contain an
A few (	(a) / windows (b) / in	the main hall was broke	en (c) / by the demonstrator	rs (d).

50. The following sentence is divided in four parts (a, b, c, d) one of which might contain an error. Spot the error and mark that part of the sentence as the answer.
Don't worry (a) /I shall (b) /be back (c) /in a few minutes and join you (d).
51. The following sentence is divided in four parts (a, b, c, d) one of which might contain an error. Spot the error and mark that part of the sentence as the answer.
One of the secret (a) /of success is (b) /to keep trying (c) and not give up(d).
52. The following sentence is divided in four parts (a, b, c, d) one of which might contain an error. Spot the error and mark that part of the sentence as the answer.
The campaign launched (a)/by the group of citizen (b)/was admired most (c)/by all the guests (d).
53. Construct the correct sentence using the sentence fragments:-
P – a dry environment surrounded by
Q – the lizard which lives in
R – lives in danger of desiccation
S – comparatively moist leaf – litter
(a) QSRP (b) PQSR (c) QPSR (d) SQPR
54. Construct the correct sentence using the sentence fragments:-
During hibernation they have lost a good deal of weight /the animals consume /and when they wake up again /
P Q R
the fats accumulated in the summer.
$\mathbf{S}$
(a) RQSP (b) SQPR (c) PQRS (d) QSRP
55. Construct the correct sentence using the sentence fragments:-
The impact is to be seen / in the diverse changes in consumer habits
P Q
/of technological and industrial development /in cities, towns and even in village conglomerates.
$\mathbf{R}$

56.	Constru	ct the correct se	ntence using the so	entence fra	gments :-	
It is	not, therefor	e <u>that</u>	I pay a tribute /to	conductor	s as a class /	
P		Q				
witl	h any feeling o	of unfriendliness	/to a particular n	nember of	that class.	
R			S			
(a)	PQRS	(b) RQPS	(c) RSPQ	(d) <b>P</b>	SRQ	
<b>57.</b>	Constru	ct the correct se	ntence using the so	entence fra	gments :-	
<b>P</b> –	for viewers in	their homes				
<b>Q</b> –	the most com	mon use of				
<b>R</b> –	source of info	ormation and en	tertainment			
<b>S</b> –	television is a	s a				
(a)	QRSP	(b) QSRP	(c) PSRQ	(d) <b>P</b>	SQR	
58.	Complet	e the following s	sentences using ap	propriate	choice:-	
	quisition of cer ation :-	rtain specific ski	lls gen	eral aware	eness, education and exposure to r	iove
(a)	can be facilita	ated by (b) car	n be facilitated fro	om (c) mag	y facilitate through	
( <b>d</b> )	can be facilit	ated with				
59. arti	_	te the following s	sentences using ap	propriate (	choice: This is the work of an	
(a)	whom they th	ink is a genius	(b) that they b	elieve to bo	e genius	
(c)	which they ac	ccept as a wonde	r (d) who they sa	y is a geni	us	
60. the	-	te the following surers resulted in			choice: The violence ge to valuable factory machinery	by
(a)	unleashed	(b) sh	nown (c) al	betted	(d) faced	
					Roll No	

(a) PSQR (b) RPQS (c) PQRS (d) RSPQ

61. Complete the following se spent in London	ntences using appropriate choice: Mr Singh's last days were
(a) where he worked for an advert	tising firm.
(b) working for an advertising firm	n.
(c) where he worked at a firm of a	dvertisers.
(d) working for a firm of advertisi	ng.
62. Complete the following se important  (a) invention of this century  (c) invention of these centuries	ntences using appropriate choice: This is one of the most  (b) inventions of this century  (d) inventions of centuries

63. Read the passage and complete the fill – ups by choosing the correct option :

Mount Vesuvius, a volcano located between the ancient Italian cities of Pompeii and

Herculaneum, has received much attention because of its frequent and destructive eruptions. The most famous of these eruption occurred in A.D.79.

The volcano had been inactive for centuries. There was little warning of the coming eruption, although one account unearthed by archaeologists says that a hard rain and a strong wind had disturbed the celestial calm during preceding night. Early the next morning, the volcano poured a huge river of molten rock down upon Herculaneum, completely burying the city and filling in the harbor with coagulated lava. Meanwhile, on the other side of the mountain, cinders, stone and ash rained down on Pompeii. Sparks from the burning ash ignited the combustible rooftops quickly. Large portions of the city were destroyed in the conflagration. Fire, however, was not the only cause of destruction. Poisonous sulphuric gases saturated the air. These heavy gases were not buoyant in the atmosphere and therefore sank toward the earth and suffocated people.

Over the years, excavations of Pompeii and Herculaneum have revealed a great deal about the behaviour of the volcano. By analyzing data, much as a zoologist dissects a specimen animal, scientist have concluded that the eruption changed large portions of the area's geography. For instance, it turned the Samo River from its course and raised the level of the beach along the Bay of Naples. Meteorologists studying these events have also concluded that Vesuvius caused a huge tidal wave that affected the world's climate. In addition to making these investigations, archaeologists have been able to study the skeletons of victims by using distilled water to wash away the volcanic ash. By strengthening the brittle bones with acrylic paint scientists have been able to examine the skeletons and draw conclusions about the diet and habits of the residents. Finally, the excavations at both Pompeii and Herculaneum have yielded many examples of classical art, such as jewelry made of bronze, which is an alloy of copper and tin.

The eruption of Mount Vesuvius and its tragic consequences have provided us with a wealth of data about the effects that volcanoes can have on the surrounding area. Today volcanologists can locate and predict eruptions, saving lives and preventing the destruction of cities and cultures.

He	erculaneum and its harbor were buried under	lava.
(a)	liquid.	
(b)	solid.	
(c)	flowing.	
( <b>d</b> )	gas.	
64.	The poisonous gases were notin the air.	
(a)	able to float.	
<b>(b)</b>	visible.	
(c)	able to evaporate.	
( <b>d</b> )	invisible.	
65. spe	Scientists analyzed data about Vesuvius in the same way that a ecimen.	zoologista
(a)	describes in detail.	
<b>(b)</b>	studies by cutting apart.	
(c)	photographs.	
( <b>d</b> )	answer not available.	
66.	have concluded that the volcanic eruption	caused a tidal wave.
(a)	scientist who study oceans.	
<b>(b)</b>	scientist who study atmospheric conditions.	
(c)	scientist who study ash.	
( <b>d</b> )	scientist who study animal behaviour.	
67. vic	Scientist have used water to wash away volcanic astims.	sh from the skeletons of

- (a) bottled.
- (c) purified.

(b) volcanic.

- (d) sea.
- 68. Read the passage and answer the questions by choosing the correct option:

Just as the growth of e-business encourages the development of new business models, it

also encourages the growth of new marketing ideas to promote the e-businesses based on those models. One of the most famous examples of an e-business whose business model successfully exploits the network effect by using an innovating marketing idea is Hotmail.

Hotmail, a wildly successful e-business that offers free e-mail services, almost didn't get

launched. As with many e-business startups, Hotmail"s founders Sabeer Bhatia and Jack Smith had a problem interesting venture capitalists in their idea. When they met with Tim Draper, the founding partner of Draper Fisher Jurvetson(DGJ), Draper became interested in the idea of free e-mail but insisted that text be added to the bottom of each outgoing e-mail message, encouraging recipients to get their free e-mail at Hotmail. Draper wanted the text to be linked to the Hotmail site so that message recipients could click the link, view the Hotmail Website, and immediately sign up for the service. A first, Bhatia and Smith resisted the idea of adding the linked message, considering it too much like spam, which consists of commercial messages or advertisements blindly posted to a large number of unrelated and uninterested parties. At this time, the contents of e-mail were generally considered to be completely private. Finally, Bhatia and Smith agreed with Draper on the inclusion of the marketing message link.

Hotmail was quietly launched on 04 July 1996. Because of the holiday, the launch generated little press coverage; also, because of limited seed capital, only \$50,000 was set aside for promoting the project. Despite limited promotion, customers began signing up in droves. The first customers to sign up were at colleges and universities. A single user from a school would sign up and then, the next day, a hundred users from the same school would sign up, and by the end of the week there would be a thousand users from the same school. Next, information about Hotmail would spread to another school and the process would begin again.

Soon users from around the world began signing up. For example, within six weeks after the first user in India subscribed to the free e-mail service, Hotmail had 100,000 additional subscribers in India. In less than six months, one million users had subscribed to Hotamail's free e-mail services. Less than 18 months after its launch, Hotmail had 12 million subscribers. The network effect allowed Hotmail, the world's first free e-mail service, to spread like wildfire. Shortly after recording 12 million subscribers, Hotmail's founders sold the company to Microsoft for \$400 million in Microsoft stock.

Because of the astounding success of Hotmail, Steve Jurvetson and Tim Draper of DFJ began analyzing what was unique about Hotmail's success. They realized that Hotmail spread around the world like an epidemic. When current users sent messages to others containing the Hotmail link, they were "infecting" potential users, who in turn "infected" other potential users. Drawing an

analogy to the effects of a sneeze in a crowd, they coined the phrase "viral marketing" to describe Hotmail's innovative method of attracting new customers.

Acc	cording to the passage, the new b	ousiness model used by hotmail was called:
(a)	network effect	(b) freebees
(c)	seed-money effect	(d) innovative marketing
69.	The meaning of 'startup' a	s used in the passage is the same as :-
(a)	e-business operation	(b) new business venture
(c)	to set out on a journey	(d) to be the first
70.	What is 'spam'?	
(a)	commercial messages	(b) tightening of muscles
(c)	unsolicited e-mail	(d) unsolicited advertisement
71. litt	"Hotmail was launched on the press coverage." Which	04 July 1996. Because of the holiday, the launch generated holiday is being referred to here?
(a)	World Literacy Day	(b) Valentine's Day
(c)	US Independence Day	(d) Sabeer Bhatia's birthday
72.	Which of the following has	the same meaning to the word 'epidemic'?
(a)	widespread disease	(b) infection
(c)	cure	(d) population
73.	Which company bought H	otmail from its founders?
(a)	Draper Fisher Jurvetson(DFJ)	(b) Microsoft
(c)	Sabeer Bhatia Incorp	(d) DFJ.Com
74.	Which of the following is n	ot the same as 'wildfire' as used in the passage.
(a)	spread (b) disperse (c) sca	tter (d) converge
75.	The term 'viral marketing	' is used because
(a)	it refers to an innovative metho	d of marketing.
<b>(b)</b>	it infects and is contagious on u	sers.

(c) it caused the effect of "sneeze in a crowd".
(d) Hotmail spreads like an epidemic.
*****END OF PAPER*****
MAHARAJA RANJIT SINGH ARMED FORCES PREPARATORY INSTITUTE
Entrance Test
Question Paper-Mathematics
Date:-30 Jan, 2011 Max Marks: 75 Time-1 PM to 2.30 PM (90 minutes)
General Instructions:-
I. All questions are compulsory and carry equal marks.
II. There will be negative marking for incorrect answer. One fourth marks will be deducted from the total marks scored.
III. There is only one correct answer. Hence mark one choice only.
IV. Use of calculator is not permitted.
V. Total number of questions is 75.
VI. Answers are to be marked on O.M.R Sheets only.
VII. Please remember this is a competitive Exam, so do not cheat or permit anybody to do so.
1. The irrational number between 2 and 3 is:
(a.) $\sqrt{2}$ (b.) $\sqrt{3}$ (c.) $\sqrt{5}$ (d.) $\sqrt{11}$
2. If $\tan A + \cot A = 4 \tanh \tan^4 A + \cot^4 A$ is equal to
(a.) 196 (b.) 194 (c.) 192 (d.) 190
3. A polynomial of the form $ax^5 + bx^3 + cx^2 + dx + e$ has at most
(a.) 3 zeros (b.) 5 zeros (c.) 7zeros (d.) 11 zeros

4. On Solving -=1, +=5 we get:

(a.) 
$$x = 4$$
,  $y = 6$  (b.)  $x = 6$ ,  $y = 4$  (c.)  $x = 8$ ,  $y = 6$  (d.) None of these

5. The ratio of the sum and product of roots of  $7x^2 - 12x + 18 = 0$  is

6. The equivalent rational form of 17.6 is

7. If Sin  $\Theta$  and Cos  $\Theta$  are the roots of the equation  $ax^2 - bx + c = 0$  then, a, b, c satisfy the relation

(a.) 
$$b^2 - a^2 = 2ac$$
 (b.)  $a^2 - b^2 = 2ac$  (c.)  $a^2 + b^2 + c^2$  (d.)  $a^2 + b^2 = 2ac$ 

8. If  $\sin \alpha = \frac{1}{2}$  and  $\alpha$  is acute, then  $(3\cos \alpha - 4\cos^2 \alpha) = ?$ 

(a.) 
$$0$$
 (b.)  $\frac{1}{2}$  (c.)  $\frac{1}{6}$  (d.) -1

9. If  $7\sin^2\Theta + 3\cos^2\Theta = 4$  and  $0 < \Theta <$ , then the value of tan  $\Theta$  is:

10. From a light house the angles of depression of two ships on opposite side of the light house are observed to be  $30^{\circ}$  and  $45^{\circ}$ . If height of the light house is h meters, the distance between the ships is:

(a.) 
$$(+1)$$
 h meters (b.)  $(-1)$  h meters

(c.) h meters (d.) 1 + (1+1/) h meters

11. 4<sup>n</sup> where n is a natural number, does not end with digit:

12. Which of the following system of equation has unique solution?

$$(a.)3x + y = 2, 6x + 2y = 3$$
 (b.)  $2x - 5y = 3, 6x - 15y = 9$ 

(c.) 
$$x - 2y = 3$$
,  $3x - 2y = 1$  (d.) None.

13. if x = 0,  $x/2 = y^2$  and x/4 = 4y then 'x' equal to

14. The solution set of equation + = 126 is:

15. The sum of 'n' terms of the series a, 3a, 5a..... is

- (a.) Na (b.) 2na (c.) an2 (d.) None
- 16. The system of equations Kx + 3y = -3, 12x + Ky = -K will have infinitely many solutions, if the value of K is:
- (a.) 3 (b.) -3 (c.) 12 (d.) 6
- 17. The graph of x = 5 is perpendicular to
- (a.) x axis (b.) y axis (c.) line y = x (d.) line y = -x
- 18. A real number  $(2^2 \times 3^2 \times 7^2)/(2^5 \times 3^2 \times 5^3 \times 7)$  will have
- (a.) Terminating decimal

- (b.) Non- terminating repeating decimal
- (c.) Non Terminating non repeating (d.) Terminating repeating decimal
- 19. If polynomial of  $(x) = ax^3 + bx c$  is divisible by the polynomial  $g(x) = x^2 + bx + c$  then ab = ?
- (a.) 1 (b.) 1/c -1 (c.) -1/c (d.) 1/c
- 20. If the roots of a quadratic equations are equal, then.
- (a.)  $b^2 4ac > 0$  (b.)  $b^2 = 4ac$
- (c.)  $b^2 4ac < 0$  (d.) None of these
- 21.In an AP it is given that tp+1 = 2tq+1 Find a : d
- (a.) 2tp+q+1 (b.) 2t p+q+1 (c.) p-q/1 (d.) q-p/1
- 22. The sum of n term of the series if an = 2n + 5.
- (a.)  $n^2$  (b.)  $n^2 + 6$  (c.)  $n^2 + 5n$  (d.)  $n^2 + 6n$
- 23. The sum of all three digit numbers which are multiple of 7 where n = 128
- (a.) 7336 (b.) 70336 (c.) 70357 (d.) 70280
- 24. If 5 times the fifth term of an AP is equal to 8 times its eight terms then 13th term is
- (a.) 0 (b.) 13 (c.) 40 (d.) 50
- 25. The distance of the point p (4,-3) from the origin is
- (a.) 5 unit (b.) 7 units (c.) 1 units (d.) 3 units
- 26. Co-ordinates of reflection of Q (-1, -3) in x axis:
- (a.) (-1, 3) (b.) (+1, 3) (c.) (1, -3) (d.) None of these
- 27. Abscissa of a point which divides the join of (3, 4) and (2, -1) in the ratio 1 = 2 internally is

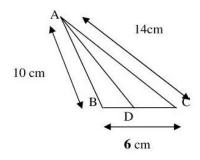
(a.) 8/3 (b.) 6 (c.) 5/3 (d.) None of these

28. The length of string between kite and a point on the ground is 93.5m if the string makes an angle with the level ground

such that tanq = 15/8, how high the kite is?

(a.) 82.5m (b.) 7.5m (c.) 78.05m (d.) 80.5m

29. In given fig. in  $\triangle ABC$ , AD is internal bisector of  $\bot A$  such that AB = 10cm, AC = 14cm and BC = 6cm the CD = ?



(a.) 10cm (b.) 3.5cm (c.) 414cm (d.) 6cm

30. If in two triangles, corresponding angles are equal, than the two triangles are:

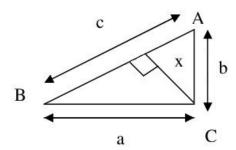
(a.) Equiangular (b.) Equiangular the similar

(c.) None of these (d.) Similar

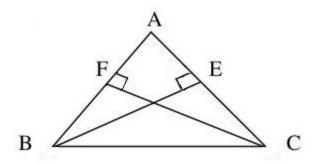
31. In right angled  $\triangle ABC$ , AC = b, BC = a, AB = c and  $\triangle C = 90^{\circ}$   $CD^{\perp}AB$  and CD = x. then ab = c

(a.) c/x (b.) cx

(c.) 2cx (d.) 2c/x



32. In  $\triangle$  ABC, BE $^{\perp}$ AC and CF $^{\perp}$ AB then BC2



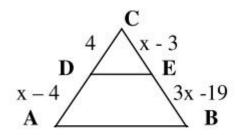
$$(a.) (ABx AF) + (AC x CE)$$

**(b.)** 
$$(AB \times BF) + (AC \times CE)$$

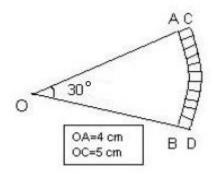
(c.) 
$$(AB \times CF) + (AC \times CE)$$

$$(\mathbf{d.}) \mathbf{AB} + \mathbf{BC} + \mathbf{AC}$$

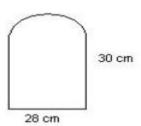
33. Find the value of x in given figure, if DE  $\|AB\|$ 



- (a.) 8 and 9cm 4 x 3
- (b.) 8 and 11 cm D E
- (c.) 8 cm x 4 3x 19
- (d.) 11 cm A B
- 34. In fig given alongside the area of the shaded region is:



- (a.) 9πcm<sup>2</sup> (b.) 5πcm<sup>2</sup>
- (c.)  $3\pi \text{cm}^2$  (d.) None of these
- 35. Area of largest triangle that can be inscribed in a semicircle of radius r unit is:
- (a.)  $r^2$  Sq units (b.)  $\frac{1}{2}$   $r^2$  Sq units
- (c.)  $r^2$  Sq units (d.)  $2r^2$  Sq units
- 36. The perimeter of the window with rectangle base and semi-circular top as shown in adjoining fig is.



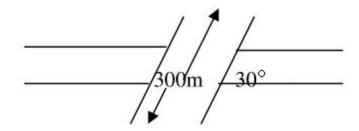
- (a.) 142 cm (b.) 112 cm
- (c.) 132 cm (d.) 160 cm
- 37. An umbrella has 8 ribs which are equally spaced. Assuming umbrella to be a flat circle of radius 45 cm, find area

between the two consecutive ribs of the umbrella

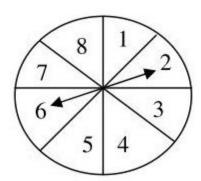
- (a.) cm<sup>2</sup> (b.) cm<sup>2</sup>
- (c.) cm<sup>2</sup> (d.) cm<sup>2</sup>
- 38. If the surface area of a sphere is 154cm<sup>2</sup>, then its volume is:

- (a.) 539m³ (b.) 149(2/3) m³ (c.) 179(2/3) m³ (d.) None of these
- 39. The shape of gilli in the gilli danda game is a combination of:
- (a.) Two coneS and one cylinder (b.) a cone and cylinder
- (c.) Two cones (d.) two cylinders and a cone
- 40. A right circular cylinder of radius r cm and height h cm (h > 2r) just encloses a sphere of diameters
- (a.) r (b.) 2r (c.) 3r (d.) 4r
- 41. If the ratio of volumes of two spheres 1:8, then the ratio of their surface area is .
- (a.) 1:2 (b.) 1:8 (c.) 1:4 (d.) 2:1
- 42. A bridge crossing a river makes an angle of  $30^\circ$  with the river bank. If the length along the bridge from bank to bank is

300m, then width of river is:



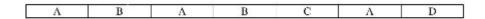
- (a.) 450m (b.) 600m
- (c.) 150m (d.) 150m
- 43. A game of chance consists of spinning an arrow which comes to rest pointing at one of the numbers greater than 3 is:



- (a.) 5/8 (b.) 2/8
- (c.) 3/8 (d.) 4/8
- 44. A jar contains 24 marbles, some are green and other are  $\operatorname{red}$  A marbles is drawn at random from the jar. If the

Probability that marble is green is 2/3, then the number of red marbles in the jar is:

- (a.) 7 (b.) 8 (c.) 10 (d.) 6
- 45. A marble is drawn at random from a bag. The probability that the marble is green, if the bag contains marbles whose colours are 6 blue, 4 green is
- (a.) 4/5 (b.) 1/5 (c.) 2/5 (d.) 1/10
- 46. A child has a block in the shape of a cube with one letter written on each face a shown in the following. Find the probability of not getting 'A'



- (a.) 1/7 (b.) 3/7 (c.)  $\frac{1}{2}$  (d.) 4/7
- 47. Two dice are drawn simultaneously. The probability of getting doublet or total of 4 is:
- (a.) None (b.) 3/7 (c.) 4/9 (d.) 2/9
- 48. The arithmetic mean of 1, 2, 3,...,n is
- (a.)  $n + \frac{1}{2}$  (b.)  $n-\frac{1}{2}$  (c.) n/2 (d.)  $n+\frac{1}{2}$
- 49. The mean of a discrete frequency distribution  $xi/fi : i = 1,3 \dots x$  is given by
- (a.)  $\Sigma$  fi (b.)  $\Sigma$  fixi (c.)( $\Sigma$  fixi)/( $\Sigma$ xi) (d.) ( $\Sigma$  fixi)/( $\Sigma$ fi)
- 50. In a frequency distribution c = 3, L = 66.5 f = 42, h = 10, n = 90. Then the median of the distribution is:
- (a.) 65.5 (b.) 78.5 (c.) 76.9 (d.) 76.5
- 51. If x is the mean of  $x_1, x_2, x_3, \dots$ , then the mean of  $x_1/k, x_2/k, \dots/k$
- (a.) 1 (b.) K (c.) x/k (d.) x
- 52. Two circular cylinders of equal volume have their heights in the ratio 1:2. The ratio of their radii is:
- (a.) 1: (b.) 2:1 (c.) :1 (d.) 1:4

53. The internal and external radii of a hemispherical bowl are  $\mathbf{r_1}$  and  $\mathbf{r_2}$  respectively. The curved surface area of the bowl

will be:

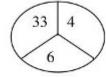
(a.) 
$$\pi$$
 (+) (b.) 2  $\pi$  (+)

(c.) 
$$2 \pi$$
 (-) (d.)  $\pi$  (-)

54. If L stands for +, M stands for -, N stands for x, P stands for ÷, then 14N10L42P2M8 =

56. Find the missing number in the given set of numbers.







57. If eye is called hand, hand is called mouth, mouth is called ear, ear is called nose and nose is called tongue, with which

of the following would a person hear?

58. Which expression is equivalent to 5[4+3(x-6)]?

(a.) 
$$15x - 10$$
 (b.)  $15x - 70$  (c.)  $15x - 14$  (d.)  $15x - 110$ 

59. When a number is divided by 6, its remainder is always:

(a.) Greater than 6 (b.) Greater or equal to 0 or less than 6

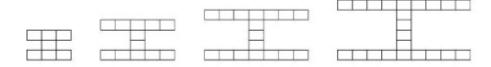
(c.) lies between 6 and 12 (d.) less then zero

60. The Nap brothers had their first successful flight near kitty Hawk, North Carolina, Mr. Sam finds it easy to remember the year in which the flight occurred because the number, the square root of his telephone number is nearest to a whole. In which year did the flight occur?

61. Find the missing character in the given question:

7	9	21	27
4	2	36	18
9	4	54	?

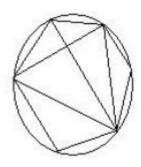
- (a.) 24 (b.) 18
- (c.) 36 (d.) 48
- 62. The square tiles given here are arranged to show a pattern. Which expression can be used to determine the number of square tiles in stage n?



- (a.) 5n + 2 (b.) 4n + 3 (c.)  $n^2 + 6$  (d.)  $n^3 + 6$
- 63. In the series 64122874215386217141328, how many pairs of successive number have a difference of 2 each?
- (a.) Four (b.) Three (c.) Six (d.) Seven.
- 65. If you cut out the fold the pattern shown on the right to make a cube, which letter will be on the face of the cube opposite the face labelled 3?

			5
1	2	3	4
			6

- (a.) 1 (b.) 2
- (c.) 5 (d.) 6
- 66. How many triangles are there in the given figure?



(a.) 8 (b.) 10

(c.) 11 (d.) 12

67. John remembers that her brother Kabir's birthday falls after May but beforeMay while Ria remembers that Kabir's birthday falls before May but after May. On what date Kabir's birthday falls?

(a.) May (b.) May (c.) May (d.) May

69. The given chart shows how much the party house charges for pizza parties for different number of people. If n stands for the number of people and c stands for the cost in Rs., which equation represents the information in the chart?

Number	Cost
of	(Rs.)
People	(200) 8280
5	125
8	140
12	160
20	200

(a.) 
$$C = 5n + 40$$
 (b.)  $C = n + 45$ 

(c.) 
$$C = 5n + 100$$
 (d.)  $C = 2n + 35$ 

70. A is father of C and D is son of B. E is brother of A. if C is sister of D how is B related to E.

(a.) Daughter (b.) Brother (c.) Husband (d.) Sister-in-law

71. Sam is standing in the sun close to a lamp post. Sam is 5 feet tall and his shadow is 2 feet long. The shadow

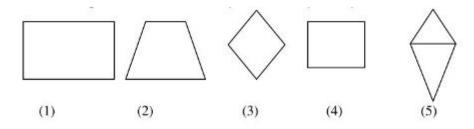
of the lamp post is 8 feet long. How tall is the lam post?

(a.) 14ft (b.) 18ft

- (c.) 16ft (c.) 20ft
- 72. Which of the following number does not have a multiplicative inverse?
- (a.) 0 (b.) -1/3 (c.) 1 (d.) 3
- 73. Neena and three of her friends worked together to make a quilt. The given table lists the fractional part of the quilt that each of the girl made. Which list shows the girl in order from the one who sewed the most to the one who sewed the least?

Girl	Parts		
	Sewn		
Nalini	3/8		
Kamini	1/5		
Shalini	2/5		
Reena	1/40		

- (a.) Reena, Nalini, Shalini, Kamini
- (b.) Shalini, Nalini, Kamini, Reena
- (c.) Reena, Kamini, Nalini, Shalini
- (d.) Kamini, Shalini, Nalini, Reena
- 74. Which two quadrilaterals have exactly one line of symmetry?



- (a.) 1 and 5 (b.) 2 and 3 (c.) 1 and 4 (d.) 2 and 5
- 75. In certain code INACTIVE is written as VITCANIE. How is ALIGATOR written that code?
- (a.) ROTAGILA (b.) OTAGILAR (c.) ROTAGILE (d.) OTAGLIAR