COLLEGE OF TEACHER EDUCATION (PGT)

BOYCE ROAD , LAITUMKHRAH SHILLONG - 793003

NAAC, Accredited with CGPA of 2.81 at B Grade

ENTRANCE TEST

(WRITTEN)

To

THE TWO YEAR B.Ed COURSE

ACADEMIC SESSION

2022 – 2024

DATE: 11TH JUNE 2022

SECTION - I

SUBJECT COMPETENCY - SCIENCE

CANDIDATE'S CODE NO:

Candidate's Code No:

SECTION - I

SUBJECT COMPETENCE: SCIENCE

(Total Marks: 15)

Tick the correct answ	er from the	given options:	(1/2x30 = 15)	
1. Which one of the fo	llowing has th	ne highest value	e of specific heat?	
a) Alcohol b) Meth	ane c) Ker	rosene	d) Water	
2. With the increase of	pressure, the	boiling point o	f any substance	
a) Increases b) Decr	eases c) Ren	nains Same	d) Becomes zero	
3. The rotational effect the	of a force on	a body about a	n axis of rotation is des	cribed in terms of
a) Centre of gravity	b) Centripetal	force c) Cer	trifugal force d) Mon	nent of force
4. Which law is also ca	illed the law o	of inertia?		
a) Newton's first law			b) Newton's Se	cond Law
c) Newton's Third Law			d) All of these	
5. What is the unit of A	stronomical l	Distance?		
a) Light year	o) Angstrom	c) Wel	per d) Lux	
6. If a lift is going up w	vith accelerati	on, the apparer	t weight of a body is	
a) More or less the true weight		b) Equal to the true weight		
c) Less than the true weight		d) More than the true weight		
7. What is the scale use	ed for measuri	ing the intensity	of the earthquake?	
a) Metric Scale		b) Quake Scal	e	
c) Richter Scale		d) Epicentre S	cale	
8. A jet engine works o	n the principl	e of conservati	on of	
a) Linear momentum		b) Angular mo	omentum	

-					
Can	did	ato'	's Co	Ohe	MO.
Call	ulu	aic	201	JUIC .	IVU.

c) Energy Mass	c) Mass Velocity		
9. Bolometer is used to measure			
a) Frequency	b) Temperature		
c) Velocity	d) Wavelength		
10. An artificial Satellite revolves reconstant?	ound the Earth in circular orbit, which quantity remains		
a) Angular Momentum	b) Linear Velocity		
c) Angular Displacement	d) None of these		
11. The organic reaction represented	by equation CH3 - CH = O + H2NOH gives CH3 -		
CH - NH + H2O is an exa	mple of		
a) an addition reaction	b) a condensation reaction		
c) an oxidation reaction	d) an elimination reaction		
12. The human body is made up of several chemical elements; the element present in the highest proportion (65%) in the body is			
a) carbon	b) hydrogen		
c) oxygen	d) nitrogen		
13. 10 The hottest part of the gas flame is known as			
a) luminous zone	b) dark zone		
c) blue zone	d) non-luminous zone		
14. The most extensive, commercially useful source of thorium as monazite sand occurs in India at			
a) Orissa coast	b) Travancore coast		
c) West Bengal coast	d) Gujarat coast		
15. The main active constituent of tea and coffee is			
a) nicotine	b) chlorophyll		

Candidate ^e	's Code No:	
	2	
	,	

c) caffeine d) aspirin 16. The hardest form of carbon is a) coke b) graphite c) diamond d) charcoal 17. Chlorofluorocarbon are non-flammable chemicals mainly used in (a) Perfumes (b) Refrigerators (c) Air conditioners (d) All of the above 18. The method that cannot be used for removing the permanent hardness of water is a) adding sodium carbonate b) distillation c) adding caustic soda d) boiling 19. The Galapagos Islands are associated with the visit of (a) Jean Lamarck (b) Charles Darwin (c) Gregor Mendel (d) Alfred Wallace 20. The first organisms were (a) primitive eukaryotes (b) aerobic bacteria (c) prokaryotic (d) photosynthetic

21. Biologists who study the sequences of organisms in the fossil record are

(a) taxonomists (b) palaeobiologists

(c) misologists (d) systematists

22. Which of the following set is the evidence of evolution?

(a) Homologous and vestigial organs (b) Analogous and vestigial organs

(c) Homologous and analogous organs (d) All of the above

23. The earliest animal to have been domesticated by man most likely the

Cano	lida	ate's	s Cod	le No)
------	------	-------	-------	-------	---

(a) horse(c) dog24. Trees at seashore do not have ar	(b) pig (d) cow
(a) There is climatic variation	maar rings sectase
(b) There is no marked climatic var	iation
(c) There is enough moisture in the	atmosphere
(d) Soil is sandy	
25. If an Amoeba is placed in sa	alt water, its contractile vacuole will
a) Burst	c) Multiple
c) Enlarge	d) Disappear
26. Which of the following is no	ot a true amphibian animal?
a) Tortoise	b) Frog
c) Toad	d) Salamander
27. Quinine, utilized in the trea	tment of malaria, is extracted from
a) Red ants	b) Blister flies
c) Cinchona	d) Cinnamon
28. Which one of the following	regulates respiration in man?
a) Medulla oblongata	b) Mid brain
c) Spinal cord	d) Fore brain
29. The branch of the science d	ealing with the study of human skin is called
a) Anatomy b) De	rmatology
c) Bio-chemistry	d) Physiology
30. All of the following foods la	ack Vitamin C except
a) Milk	b) Cheese
c) Meat	d) Rice.