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		OMPETITIVE EXAMINATION FO			
	The self site of the self	UITMENT TO POSTS IN BPS-17 HE FEDERAL GOVERNMENT, 2(			
	NAM ADALLO	ENERAL KNOWLEDGE PAPER		0.	
		(EVERY DAY SCIENCE)			
Γ	TIME ALLOWED:	(PART-I) 80 MINUTES		MAXIMUM MARKS:50	
		(PART-II) 100 MINUTES		MAXIMUM MARKS:50	
NO	<b>DTE:</b> 80 minutes	ot PART-I (MCQ) on separate Answ g/cutting of the options/answers wil			
		<u>PART – I (MCQs)</u> (COMPULSORY)			
Q.1.	Select the best optio	m/answer and fill in the appropriate	e Box on the An	swer Sheet: (50)	
(1)	Persons with following	blood group are considered to be univer			
( <b>2</b> )	(a) A+ Study of life in outer sp	(b) B+ (c) AB+	(d) O+	(e) None of these	
(2)	•		) Neobiology	(e) Micro biology	
(3)	The name of the comm	on mineral salt present in sweat is:			
	<ul><li>(a) Calcium Oxalate</li><li>(e) None of these</li></ul>	(b) Potassium Sulphate (c) Sodium Ch	noriae (a) Iror	n Sulphide	
(4)	Sensitive layer of the e				
(5)	(a) Choroids Laughing gas has chen	(b) Sclerotic (c) Retina nical composition of following two eleme	. ,	(e) None of these	
(5)	(a) Nitrogen + Hydrog				
(6)	(d) Oxygen + Carbon	(e) None of these stan was one of the contributors to the unifica	ation of		
(6)	(a) Electromagnetic forc		agnetic force and we	eak nuclear force	
	<ul><li>(c) Gravitational force at</li><li>(e) None of these</li></ul>	nd weak nuclear force (d) Weak nuc	clear force and stron	g nuclear force	
(7)	Which triplet in DNA	codes for valine:			
(9)	(a) CTT (b) A(		(e) None of the	se	
(8)	(a) Zero (b) $1/4$	a diabetic baby born to parents both heter 4 (c) 1/2 (d) 3/4	(e) None of the	se	
(9)		g is not a part of Darwinism:			
	<ul><li>(a) Over production</li><li>(d) Competition for su</li></ul>		heritance for acqu	ired characters	
(10)	Role of biotechnology	in the production of food is based on:			
(11)	(a) Decomposition Which form of drug ab	(b) Respiration (c) Digestion (d) I buse involves most risk of infection with t		(e) None of these	
(11)	(a) Cigarette smoking	(b) Using alcohol		ction of heroine	
(12)	(d) Taking too much a Founder of modern ast				
(12)	(a) Archimedes	•	icolas Copernicus		
(12)	(d) Michel Faraday	(e) None of these	_		
(13)		<ul><li>measures very high temperature is:</li><li>(b) Thermostat</li><li>(c) Chronometer</li></ul>	(d) Pyrometer	(e) None of these	
(14)		ls with study of manners and customs of	•	· · · · · · · · · · · · · · · · · · ·	
	(a) Ethnology	(b) Morphology (c) Ethics	· ·	(e) None of these	
(15)	Chemicals used to kill (a) Insecticides (b)	rats and mice are: Rodenticides (c) Fungicides (d) Herb	oicides (e) Nor	e of these	
(16)	Dry ice is:	-			
	<ul><li>(a) Methane hydrate</li><li>(d) Frozen water</li></ul>	<ul><li>(b) Liquid Nitrogen</li><li>(e) None of these</li></ul>	(c) Solid Carbo	ndioxide	
(17)	Chemical name of vine	egar is:			
	(a) Sodium Nitrate	(b) Dilute acetic acid	(c) Chloride of	lime	
(18)	(d) Calcium Deficiency of followin	(e) None of these g vitamin decreases hemoglobin producti	ion:		
	(a) Biotin (b) Th	iamine (c) Niacin (d) Py	vridoxine (e) Nor	e of these	
(19)	<ul><li>Hygrometer is used for</li><li>(a) Speed of sound</li><li>(d) Specific gravity of</li></ul>	(b) Density of milk	(c) Hur	nidity of air	
				Page 1 of 3	

(20)	Bronze is an alloy of:
	(a) Copper and Zinc (b) Tin and Zinc (c) Copper and Tin
	(d) Iron and Zinc (e) None of these
(21)	Which of the following is most elastic?
	(a) Steel (b) Rubber (c) Glass (d) Sponge (e) None of these
(22)	Orbital period of the planet Mercury around the sun is:
	(a) 88 days (b) 365 days (c) 2 years (d) 98 days (e) None of these
(23)	The most splendid and the most magnificent constellation in the sky is:
(23)	(a) Orion (b) Columba (c) Canis Major (d) Taurus (e) None of these
(24)	"Black holes" refer to:
(24)	(a) Holes occurring in heavenly bodies (b) Bright spots on the sun
	(c) Collapsing objects of high density (d) Collapsing objects of low density
(25)	(e) None of these
(25)	Eugenics is the study of:
	(a) Altering human beings by changing their genetic components
	(b) People of European origin (c) Different races of mankind
	(d) Genetics of plants (e) Eunuchs
(26)	The position of earth in its orbit, when it is at its greatest distance from the sun causing northern
	summer is called:
	(a) Aphelion (b) Perihelion (c) Perigee (d) Apogee (e) None of these
(27)	Diamond is a very expensive ornament. It is composed of a single element.
	(a) Carbon (b) Gold (c) Silver (d) Platinum (e) None of these
(28)	Which of the following layers makes radio transmission possible?
	(a) Troposphere (b) Ionosphere (c) Mesosphere (d) Stratosphere (e) None of these
(29)	Which of the following explains the reason why there is no total eclipse of the sun?
	(a) Size of the earth in relation to that of moon (b) Orbit of moon around earth
	(c) Direction of rotation of earth around sun (d) Area of the sun covered by the moon
	(c) Direction of formation of our intervent sum (c) finder of the sum covered by the moon
(30)	Television signals are converted into light signals by:
(50)	(a) Optical fibre (b) Transistor (c) Decoder (d) Photo diode (e) None of these
(31)	Where do most of Asteroids lie?
(51)	(a) In asteroid belt between the orbits of Mars and Jupiter.
	(b) In asteroid belt between the orbits of Mars and Venus.
	(c) In asteroid belt between the orbits of Jupiter and Venus.
(22)	<ul> <li>(c) In asteroid belt between the orbits of Jupiter and Venus.</li> <li>(d) Everywhere in the sky.</li> <li>(e) None of the these</li> </ul>
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(44)	Yeast is used in making bread because it produces: (a) Carbon dioxide (b) Sugar (c) Bacteria (d) Oxygen (e) None of	these
(45)	Oasis is associated with:	ulese
	(a) Glaciers (b) Desert (c) Islands (d) Volcanoes (e) Fertile la	and
(46)	Quartz crystal in quartz watches works on the principle called:(a) Photoelectric effect(b) Stark effect(c) Thermionic effect	
	(d) Piezo-electric effect (e) None of these	
(47)	The Fruits without seed, like banana, are called:	
	(a) seedless fruits (b) parthenogenesis fruits (c) parthenocarpic fruits (d) placental fruits	
(10)	(e) Organic fruits	
(48)	Animal which captures and readily kills living animals for its food is called: (a) Parasite (b) Scavenger (c) Predator (d) Mammal(e) None of these	
(49)	In a railway track, two rails are joined end to end with a gap in between them because:	
	(a) Steel can be saved.	
	(b) Accidents due to contraction in winter can be avoided.	
	<ul><li>(c) Air gaps are necessary for bearing the weight of running train.</li><li>(d) Accidents due to expansion in summer can be avoided.</li></ul>	
	(e) All of these	
(50)	Name the famous book of Ibn-Sina in which he discussed human physiology and medicine:	
	(a) Al-Qanoon (b) Al-Masudi (c) New Renaissance (d) Tadhkira (e) None of	these
	PART – II (Subjective)	
NO	TE: (i) Attempt ONLY FIVE questions from PART-II. All questions carry EQUAL marks	s.
	(ii) Extra attempt of any question or any part of the attempted question will not be cons	sidered.
Q.2.	Write short note on the following by giving their exact life span and contributions to the	
	field of science (Accurate facts will be appreciated)	(5 x 2)
	(a) Umer Al Khayam (b) Zakariya Al Razi	
Q.3.	Differentiate between <b>ANY FIVE</b> of the following pairs.	(2 x 5)
	<ul> <li>(a) Umbra and Penumbra</li> <li>(b) Heavy water and hard water</li> <li>(c) Smog and Smoke</li> <li>(d) Myopia and Hypropia</li> <li>(e) Lava and Magma</li> <li>(f) Periscope and peri</li> </ul>	meter
	(g) X-rays and Gamma rays	meter
Q.4.	Sun is a glorious star in our sky. Write down its characteristics with reference to the following	ng data:
	(a) Distance from earth (b) Mean distance from centre of galaxy	0
	(c) Velocity around centre of galaxy (d) Revolution period around centre of galax	y
	<ul><li>(e) Equatorial diameter</li><li>(f) Rotation period at the equator</li><li>(g) Core temperature</li><li>(h) Solar wind</li></ul>	
	(i) The lovely Diamond Ring effect (i) Future of sun	
Q.5.	Write briefly (not more than three to four sentences) about <b>ANY</b> FIVE of the following.	(2 x 5)
	(a) Allotropy (b) Nebula (c) Enrichment of Ura	nium
	(d) Aqua Regia (e) Greenhouse effect (f) Igneous rocks	
Q.6.	(a) Define <b>GENETIC ENGINEERING.</b> In how many ways Genetic Engineering can be applied in different fields of life? Does it benefit society? Discuss.	(1 + 2 + 2)
		(1+3+2) (1/2 each)
	(i) SONAR (ii) CNS (iii) PTFE (iv) LDL (v) SARS	(1,2 ••••1)
	(vi) GUT (vii) BASIC (viii) BTU	
Q.7.	(a) What are <b>MINERALS</b> ? Discuss <b>ANY TWO</b> physical properties thereof. Also mention	
	<ul><li>(b) Define the following:</li></ul>	(1 each)
	(i) Amphibion (ii) Synchronous satellite (iii) Big Dipper	(I tacii)
	(iv) Fermentation (v) Millennium Bug	
Q.8.	(a) Define <b>RECEPTORS</b> in man. Name different receptor organs in human body.	
	Also discuss <b>ANY TWO</b> of them briefly.	<i></i>
	(b) Give scientific reasons of the following.	(1 each)
	<ul><li>(i) The dogs pant, the birds open their mouth and the elephants move rapidly their ears.</li><li>(ii) The manholes covers are generally round.</li></ul>	
	(iii) A geostationary satellite appears standstill to a viewer on the equator of earth.	
	(iv) We never see birds urinating.	
	(v) Pasteurized milk has more nourishment than the ordinary boiled milk.	
-	(a) Highlight the similarities and differences between animals and plants.	(3+3)
	(b) Write short note on <b>ANY TWO</b> of the following.	(2 each)
	(i) Teleprinter (ii) Dengue Virus (iii) Vacuum Cleaner	
	(i) Teleprinter (ii) Dengue Virus (iii) Vacuum Cleaner	