

(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:						
(22)	(a) 88 days (b) 365 days (c) 2 years (d) 98 days (e) None of these The most anisotial and the most magnificant constallation in the alw is:						
(23)	The most splendid and the most magnificent constellation in the sky is:(a) Orion(b) Columba(c) Canis Major(d) Taurus(e) None of these						
(24)	"Black holes" refer to:						
(21)	(a) Holes occurring in heavenly bodies (b) Bright spots on the sun						
	(c) Collapsing objects of high density (d) Collapsing objects of low density						
	(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						
$\langle \mathbf{O} \mathbf{C} \rangle$	(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						
(20)	(e) None of these Television signals are converted into light signals by						
(30)	Television signals are converted into light signals by: (a) Optical fibre (b) Transistor (c) Decoder (d) Photo diode (e) None of these						
(31)	Where do most of Asteroids lie?						
(31)	(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.						
	(d) Everywhere in the sky. (e) None of the these						
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(44)	Yeast is used in making bread because it produces:						
	(a) Carbon di	oxide (b) s	Sugar (c) Bac	cteria (d) Oxygen	(e) None of these		
(45)	Oasis is associ	iated with:					
	(a) Glaciers	(b) Desert	(c) Islands	(d) Volcanoes	(e) Fertile land		

- (b) Desert (c) Islands (d) Volcanoes (46) Quartz crystal in quartz watches works on the principle called: (a) Photoelectric effect (b) Stark effect (c) Thermionic effect
 - (e) None of these (d) Piezo-electric effect

- The Fruits without seed, like banana, are called: (47) (a) seedless fruits (b) parthenogenesis fruits (c) parthenocarpic fruits (d) placental fruits (e) Organic fruits
- Animal which captures and readily kills living animals for its food is called: (48)
- (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.

- (c) Air gaps are necessary for bearing the weight of running train.
- (d) Accidents due to expansion in summer can be avoided.
- (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

<u>PART – II (Subjective)</u>

	ΊE	 (i) Attempt ONLY FIVE questions from PART-II. All questions carry EQUAL marks. (ii) Extra attempt of any question or any part of the attempted question will not be conside 	red.			
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)(a) Umer Al Khayam(b) Zakariya Al Razi				
Q.3.		Differentiate between ANY FIVE of the following pairs.(c)(a) Umbra and Penumbra(b) Heavy water and hard water(c) Smog and Smoke(d) Myopia and Hypropia(e) Lava and Magma(f) Periscope and perimeter(g) X-rays and Gamma rays(f) Periscope and perimeter	(2 x 5) er			
Q.4.		Sun is a glorious star in our sky. Write down its characteristics with reference to the following d(a) Distance from earth(b) Mean distance from centre of galaxy(c) Velocity around centre of galaxy(d) Revolution period around centre of galaxy(e) Equatorial diameter(f) Rotation period at the equator(g) Core temperature(h) Solar wind(i) The lovely Diamond Ring effect(i) Future of sun	ata:			
Q.5.		Write briefly (not more than three to four sentences) about ANY FIVE of the following.(a) Allotropy(b) Nebula(c) Enrichment of Uranium(d) Aqua Regia(e) Greenhouse effect(f) Igneous rocks	(2 x 5 m			
Q.6.			+3+2) each)			
Q.7.		What are MINERALS? Discuss ANY TWO physical properties thereof. Also mention the names of four precious minerals of high commercial value.(1)Define the following:(1)(i) Amphibion(ii)Synchronous satellite(iii)Big Dipper(iv)Fermentation(v)Millennium Bug(1)	each)			
Q.8.		 Define RECEPTORS in man. Name different receptor organs in human body. Also discuss ANY TWO of them briefly. Give scientific reasons of the following. (i) The dogs pant, the birds open their mouth and the elephants move rapidly their ears. (ii) The manholes covers are generally round. (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. 				
Q.9.		Highlight the similarities and differences between animals and plants.	(3+3) each)			
