FIRST TERM EXAM

Time: 90 Min.	PAPER CODE: S - 1031	SUB: SCIENCE (E)
Total number of Questions : 40 Max. Marks :		Max. Marks : 40
Instructions: (i) The question paper consist of 40 multiple choice objective		
ty	pe questions.	
(ii) All questions are compulsory.		
(iii) Every question has four choices for its answers (A), (B		or its answers (A), (B)
(C) and (D) and Only one of the	m is correct answer.
(iv) S	elect the one that you consider	to be the most
appropriate answer among the four choices.		
(v) l	Each correct answer will carry o	ne mark.
, ,	There will be no negative marki	
Q.1. Calcium oxid	e reacts vigorously with water to p r formula of slaked lime is	oroduce slaked lime.
		g tube, brown fumes
	e gains oxygen or loses hydrogen o	luring a chemical reaction,
it is said to be A. oxidised		
11. OAIGISCG		

B. reduced
C. oxidised and reduced
D. displaced
Q4. In the reaction : $Cu + xHNO_3 \longrightarrow Cu(NO_3)_2 + yNO_2 + 2H_2O$
The value of x and y are
A. X=4, y=2
B. $x=2$, $y=4$
C. $x=2$, $y=2$
D. $x=3$, $y=4$
Q5. The Sodium compound which is used for softening hard water
is
A. NaHCO ₃
B. NaCl C. NaOH
D. Na ₂ CO ₃
2.1142003
Q6. From the following an example of olfactory indicator is A. Turmeric B. Methyl Orange C. Vanilla D. Litmus
Q7. Gas generated by all acids on reacting with metals is A. Chlorine B. Nitrogen C. Hydrogen D. Oxygen.
Q8. pH paper on testing with a solution X, showed dark blue colour. Therefore, the solution x should be A. Very acidic B. Very alkaline C. mild acidic D. Neutral
 Q9.Care must be taken while mixing Nitric acid or Sulphuric acid with water because A. It results in decrease in concentration of ions. B. The process is highly endothermic one. C. It generates H⁺ (aq) ions.
D. It generates OH ion

Q10. The ability of metals to be drawn into thin wires is called
A. malleability B. ductility
C. lustre
D. Sonorous
D. Bollolous
 Q11. An example of metal oxide which react with both acids and bases to produce salt and water is A. Aluminium oxide B. Magnesium oxide C. Sodium Oxide D. Copper Oxide
Q12. Metal sulphides are converted into metal oxides by heating strongly in
the presence of excess air, This process is known as
A. Enrichment
B. Roasting
C. Calcination
D. Concentration
13. Method which is suitable for preventing rusting of an iron frying pan is A. Applying grease
B. Applying paint
C. Applying coating of Zinc
D. All of the given
Q14. The gap between two neurons is called a
A. Dendrite
B. Axon
C. Synapse
D. Impulse
Q15. The part of the brain that maintains the posture and balance of the body is A. Cerebrum B. Cerebellum
C. Medulla
D. Spinal cord

Q16. The plant hormone that promotes cell division is A. Cytokinins B. Auxins C. Gibberellins D. Abscisic acid
Q17. The growth of pollen grain towards ovules is an example of A. Geotropism B. Phototropism C. Chemotropism D. Hydrotropism
Q18. The hormone that regulates carbohydrates, Proteins and fats metabolism in the body is A. Insulin B. Oestrogen C.Growth D. Thyroxine
Q19. Ramesh is extremely short as compared to his friend of his age the gland that is responsible for his imbalance is A. Adernal gland B. Pituitary gland C. Thyroid gland D. Pineal gland
Q20. The Anther contains
A.Sepals B. Ovules C. Pollen Grain D. Carpel
A. Uterus B. Fallopian Tube C. Vagina D. Urethra

	A. Sexual reproduction
	B. Asexual Reproduction
	C. Regeneration
	D. Budding
Q23	.The function of testes at puberty is
	(i) Formation of germ cells
	(ii) Secretion of testosterone
	(iii) Development of placenta
	(iv) Secretion of estrogen
	A. (i) and(ii)
	B. (ii) and(iii)
	C. (iii) and(iv)
	D. (i) and(iv)
	Which of the following method of contraception protects from acquiring sexually transmitted diseases? A. Surgery B. Condoms C. Copper-T D. Oral-pills

Q25. The image shows the structure of a flower.

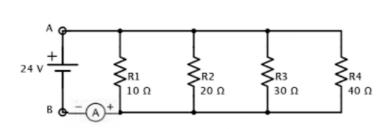


Which process will likely be disturbed or not occur, if the labelled part is removed from the flower?

B. Tra	ansport of pollen	
C. Fo	C. Formation of pollen	
D. Fo	D. Formation of male germ cells	
	Q26. Which of the following statements on the reproduction of humans is correct?	
I.	All eggs are fertilized externally	
II.	One female egg can be fertilized by many sperms	
III.	After fertilization the embryo will develop into a young baby	
IV.	Males produce sperms and females produce eggs.	
	A. I and II	
	B. I and III	
	C. II, III, and IV	
	D. III and IV	
Q27.Coulomb is the SI unit of A. Current B. Potential difference C. Resistance D. Charge		
Q28. A device that helps to maintain a potential difference across a conductor is A. Voltmeter B. Ammeter C. Battery D. Switch		
A. Hig B. Hig C. Lov	pecial characteristics of a heater coil in an electric iron are gh Resistivity and Low Melting point gh Resistivity and High Melting point w Resistivity and Low Melting point w Resistivity and High Melting point w Resistivity and High Melting point	

A. Formation of fruit

- Q30.A Car headlight bulb working on a 12 Volt Car Battery draws a current of 0.5 Ampere. Therefore, the power of the bulb is
 - A. 6 watt
 - B. 8 watt
 - C. 9 watt
 - D. 3 watt
- Q31.Two Resistances are connected in series gives an equivalent resistance of 10 Ohm. When connected in parallel gives 2.1 Ohm. Then, the individual resistance are
 - A. 6 Ohm and 4 Ohm
 - B. 8 Ohm and 2 Ohm
 - C. 7 Ohm and 3 Ohm
 - D. 5 Ohm and 5 Ohm
- Q32. The current flowing through the 20 Ohm resistor in the following circuit is



- A. 0.2 A
- B. 1.2 A
- C. 2.0 A
- D. 2.4 A
- Q33. A rectangular coil of copper wire is rotated in a magnetic field. The direction of induced current changes once in each _____
 - A. two revolutions
 - B. one revolution
 - C. half revolution
 - D. one fourth revolution
- Q34. At the time of short circuit, the current in the circuit
 - A. reduces substantially
 - B. does not change
 - C. increases heavily
 - D. varies continuously

Q35.To convert an AC generator into a DC generator
A. a split-ring type commutator must be used
B. slip rings and brushes must be changed
C. a stronger magnetic field has to be used
D. a rectangular wire loop has to be used.
Q36. The most important safety method used for protecting home appliances
from short circuit and overloading is
A. earthing
B. use of fuse
C. use of stabilizers
D. use of electric meter
Q37. In Flemings right hand rule, the middle finger will show the direction of
A. force
B. motion
C. magnetic field
D. induced current
Q38.A wind mill to function the minimum wind velocity required is
A. Less than 15 Km/hr
B. Minimum 13 Km/hr
C. More than 5 Km/hr
D. More than 15 Km/hr
Q39. A student constructed a box type solar cooker. He noticed that the Green-house effect produced by it is very effective. The part of the solar cooker responsible for green house effect isA. Mirror
B. Outer cover of the solar cooker
C. Black colour coating outside the box
D. Glass sheet
Q40. In nuclear electricity generation, the process used currently involves the fission of
A. Uranium-325 nuclei bombarding with electrons
B. Uranium-325 nuclei bombarding with protons
C. Uranium-325 nuclei bombarding with neutrons
D. Uranium-325 nuclei bombarding with ions