FSD

Objective

Paper Code

8467

**Intermediate Part Second** 

BIOLOGY (Objective) GROUP - I

Time: 20 Minutes

Roll No. :

You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

S.#	Questions	A	В	C	D
1	DNA polymerase enzyme which plays a supporting role in DNA replication is:	Polymerase I		Polymerase III	Polymerase IV
2	The S-phase of cell cycle takes:	9 hours	4.5 hours	1.30 hours	10 hours
3	Pairing of homologous chromosomes called synapsis starts during:	Leptotene	Zygotene	Pachytene	Diakinesis
4	A person having neither antigen A nor B would have blood group:	0	A	В	AB
5	Organisms that have a foreign gene inserted into them are called:	Transduct	Transform	Transgenic organism	Bioreactors
6	Archaebacteria tolerate temperature up to:	10°C	40°C	120°C	140℃
7	Lithosphere includes:	Air	Water	Gases	Earth, soil
8	In grassland ecosystem, tropical climates have woody trees called:	Savanna	Pampas	Prairies	Alpine
9	The cause of acid rain is:	Oxides of hydrogen	NO <sub>2</sub> and SO <sub>2</sub>	Oxides of potassium	Oxides of magnesium
10	Removal of salts with water from sweat glands and of seburn seems to be:	Excretory	Protective	Thermo- regulation	Both B & C
11	Kidneys receive what amount of blood supplied with each cardiac beat:	10 %	20 %	1 %	25 %
12	Long tubular structures join end to end to form long water conducting pipes in xylem are known as:	Fibers	Vessels	Sclereids	Trachea
13	Tropomyosin is a complex of how many polypeptide chains?	Single	Double	Triple	None
14	The receptors which have undifferentiated endings and produce sensation of pain are	Chemo-	Nociceptors	Mechano-	Thermo-
	called:	receptors		receptors	receptors
15	Which is a haploid cell?	Spermatogonia	Primary spermatocyte	Secondary spermatocyte	Germinal epithelium
16	The final size of a given type of a cell is attained during:	Maturation	Differentiation	Growth	Elongation
17	The peripheral part of the blastoderm where the cells lie unseparated from the yolk is called:	Hypoblast	Epiblast	Area pellucida	Area opaca

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## Intermediate Part Second FGD-41-21 Roll No. BIOLOGY (Subjective) GROUP - I Time: 02:40 Hours Marks: 68 SECTION - I any EIGHT parts. swith an example.

2. Write short answers to any Electron	The state of the s
2. Write short answers to any EIGHT parts.  (i) Define anhydrophosis with an array of the control of the contro	
(i) Define anhydrobiosis with an example. (ii) What is glomerular filtrate?	16
(iii) What is pyrexia?	
(iv) What is a ligament?	
(v) Differentiate between byoling and it	
(vi) How many ribs do not attach with the sternum?  (vii) What is after birth?	
(viii) Define climacteric.	
(ix) What is the most of the	
(ix) What is the productivity of grassland ecosystem?  (x) What are zoonlankton? Give a secondary of the control of the contro	
The way to the distance of the second of the	
(xi) Define eutrophication.	
(xii) Give importance of forests.	
3. Write short answers to any EIGHT parts.	
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("") What is accivicable? (the ite and	
(IV) Differentiate between alleles and multiple all 1	
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
(VI) What are onsing?	
(vii) Give difference between ex-vivo and in-vivo gene therapy.  (viii) How hypercholesterolemia can be a series of the control of the contro	
(x) Define biosphere.	
(xi) Differentiate between habitat and ecological niche.  (xii) Define food chain. Give and and ecological niche.	
T. Write short answers to any SIX poets	
(i) Compare morula and blastula	: 12
(II) How does coolon develop in abid	12
Compare neterocuromatin and auchania	
(iii) Beine transformation	
(V) Differentiate between template and coding	
(vi) Calculate the length of human cell cycle.	
(141) Compare Killerochora mianatala	
(viii) How does molecular biology provide an evidence for evolution? Give at least one example.  (ix) Can migration affect the genotype frequency? If yes, how?	
(ix) Can migration affect the genetic of evolution? Give at least one example	
- Jos, Row.	
SECTION - II	

## Attempt any THREE questions. Each question carries 08 marks. 5. (a) How osmoregulation occurs in fresh water and terrestrial environment? (b) Describe symbiosis and mutualism. 04 6. (1) Write the process of ecdysis in arthropods. 04 (b) Explain process of translation. 04 7. (a) What are receptors? Write names and functions of any four receptors 04 (1) What is greenhouse effect? 04 8. (a) Give an account of sexually transmitted diseases in man. 04 (b) Write note on mother-foetal Rh incompatibility. 04 9. (a)Discuss the Notochord and Mesoderm formation in chick embryo. 04 (b)Describe the evidences of evolution from comparative anatomy. 04 04

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