Subject: Urdu

B.S.Ed 3rd Professional

Paper: I

Annual 2019

Time: 03 Hrs.

7-12/18

Max. Marks: 100

(7.5x2=15)سیاق وسباق کے حوالے سے دونٹر یاروں کی تشریح سیجیے۔ الف) خودی جوانسان کو ہر بادکرنے والی چیز ہے، پُپ چاپسوئی ہوئی ہے تو خوشامداسے جگاتی اور اُبھارتی ہےاور جس کی خوشامد کی جاتی ہے اس میں چیچھورے ین کی کافی لیافت پیدا کردیتی ہے مگریہ بات بخو بی یا در کھنی چاہیے کہ جس طرح خوشامدایک بدتر چیز ہے اُسی طرح مناسب اور سچی تعریف کرنا نہایت عمدہ اور بہت ب) آپ کہیں گے جائے کی عادت بجائے خودایک عِلت تھی اس پر مزید عِلت ہائے نافر جام کا اضافہ کیوں کیا جائے؟اس طرح کے معاملات میں امتزاج و تر کیب کاطریقه کام میں لانا ،علتوں برعلتیں بڑھانا ،گویا حکایت با دہ وتریاک کوتازہ کرنا ہے۔ ج)ا یک دفعہ گورنمنٹ کالج کے جاریا پنچ طالب علم اُن کی خدمت میں حاضر ہوئے ایک توبیہ جاروں یا نچوں گُل چېرہ، نازک اقدام اس پر بناؤسنگھار کا خاص اہتمام۔ انھوں نے آتے ہی یردہ کی بحث چھیڑ دی اورایک نو جوان کہنے لگا ڈاکٹر صاحب!اب مسلمانوں کو پردہ اٹھا دینا چاہیے۔ڈاکٹر صاحب مسکرا کر بولے آپ عورتوں کو یر دے سے زکالنا جا ہتے ہیں اور میں اسی فکر میں ہوں کہ کالج کے نو جوانوں کو بھی پر دے میں بٹھا دیا جائے۔ سوالنمبر 2_ دوشعری اجزء کی تشریح کریں نظم کاعنوان اور شاعر کا نام بھی لکھیں۔ (7.5x2=15)الف کہاں بندگان ذلیل اور کہاں وہ بسر کرتے ہیں بے غم قُوت وناں وہ مكال ركھتے ہيں رشك خُلدِ جنال وہ بهنتے نہیں جُزسمورو کتاں وہ نہیں رہتے بےتغمہوساز دم بھر نہیں چلتے وہ بےسواری قدم بھر وه شب وروز و ماه وسال کهاں وه فراق اوروه وصال کہاں فرصتِ کاروبارِشوق کسے ذوق نظارهِ جمال کهاں اب وه رعنائی خیال کہاں تھی وہ اکشخص کے تصور سے اورظلمت رات کی سیماب یا ہوجائے گی آسال ہوگاسُم کےنورسے آئینہ بیش موحیرت ہوں کہ دنیا کیا سے کیا ہوجائے گی آئکھ جو بچھ دیکھتی ہے لب پیآ سکتانہیں شب گریزاں ہوگی آخر جلو وخورشید سے پیچن معمور ہوگانغمیة وحید سے سوالممر 3_الف) کسی ایک صنف نثر برمدل کھیں۔ (05)ا_داستان ۲_افسانه ب) کسی ایک ادیب پرجامع نوٹ کھیں۔ (05)الجحمحسين آزاد

(05)	سوالنمبر 4۔الف) کسی ایک شاعر کے فنی محاسن کاا حاطہ کریں۔
	ا_خواجه مير در د
	۲- اکبراله آبادی
(05)	ب) کسی ایک صف سخن پر جامع نوٹ تحریر کریں۔
	القصيره
	۲_مثنوی
(05)	سوالنمبر 5۔الف) درج ذیل میں سے پانچ کے متضا لکھیں۔
	ا۔اتفاق ۲۔بزم سے جلی سم۔اثبات ۵۔رطب ۲۔خوب کے۔حضر
(05)	ب) پانچ الفاظ کے جمع لکھیں۔
	ا۔رب ۲۔ارض ۳۔خصلت ۴۔عبیب ۵۔عزیز ۲۔قافیہ ۷۔قصر
(10)	سوالنمبر 6۔ پانچ محاورات کےمعانی ککھیں اورانھیں جملوں میں استعال کریں۔
	ا۔آسان پرد ماغ ہونا ۲۔ ٹسوے بہانا سے طاق نسیاں میں رکھانا ہم مُٹھی گرم کرنا
	۵۔آساں میں تھگلی لگانا۔ ۲۔الگّے تُلگّے کرنا۔ کے چراغ جلانا
(05)	سوالنممر 7-الف) اشفهاميهاوررابطه كي تعريف اورعلامت قلمبند كيجيّه _
(05)	ب) پانچ الفاظ پراعراب لگائیں۔
	ا خرد ۲ عشق ۳ محبت ۴ مدح ۵ برگر ۲ عقل ۷ تبسم
(05)	سوالنمبر 8۔کوئی سے پاپنچ جملوں کی در سنگی کریں۔
پ گئے ہیں۔	ا۔آج کی اخبارآ گئی ہے۔ ۲۔ بیعلی کی فوٹو ہے۔ ۳۔بارش سے ہرطرف کیچڑ ہوگیا۔ ۴۔"مکا تیب غالب" حچ
	۵۔آپ کا مزاج کیسا ہے۔ ۲۔راوی پنجاب میں بہتی ہے۔ ۷۔اس کی مرض لاعلاج ہے۔
(15)	سوالنمبر ۹ کسی ایک عنوان پرسیر حاصل مضمون تحریر کریں۔
	ا قومی ترقی میں خوا تین کا کر دار
	۲_ا قبال کا تصور خودی
	۳- د بشت گردی، اسباب اوراس کاحل

Subject: Physics
Paper: II

B.S.Ed 3rd Professional Annual 2019

Time:03Hrs.
Max. Marks:75

Note: Attempt any five questions. All questions carry equal marks

Q.1.	(a)	What is a rectifier; explain the difference between half-Wave rectifier and full-wave rectifier.	10
	(b)	What is depletion region. Why charge carries or not present in the depletion	05
Q.2.	(a)	region. How does the concept of energy bands in solids explain good conductivity of conductor, poor conductivity of insulator and electrical behavior of semi	08
	(b)	conductor? Explain the characteristics of a PN-Junction diode. What is the effect of forward and reverse biasing of diode on the width of the depletion region?	07
Q.3.	(a)	Give basic assumptions of plank,s quantum theory of radiation. How did he derive his radiation formula?	10
	(b)	What is a Black Body. Give the characteristics of Black body.	05
Q.4.	(a)	Define photo-electric effect and derive the Einstein's photo-electric equation.	10
	(b)	Explain the dual nature of electromagnetic radiations.	05
Q.5.	(a)	What are Beta particles? Explain Bucheror's experiment in detail for the	10
		determination of $\frac{e}{m}$. How did Bucheror establish that β -Particles are identical with	
	(1.)	electrons.	
0.6	(b)	Discuss the importance of the Bucheror experiment in the theory of relativity.	05
Q.6.	(a)	Explain Bohr's theory of Hydrogen atom. How are sharply defined energy levels predicted?	08
	(b)	Describe the Spectrum of Hydrogen by energy level diagrams and explain how first three lines of Balmer series can be derived.	07
Q.7.	(a)	Explain in detail the Heisenberg's Uncertainty Principle and describe how does it justify the dual nature of light and matter.	10
	(b)	Explain de Braglie Pastulate and give its experimental evidence.	05
Q.8.	(a)	Explain the properties of α, β and γ -rays.	09
	(b)	Define and explain mean-life and Half-life of radioactive element and derive	05
	()	expression for them.	03
Q.9.	(a)	What is radio active equilibrium? Distinguish between transient equilibrium and secular equilibrium. Give example of secular equilibrium.	5,4,4
	(b)	Define and explain Pair Production	5
Q.10.	` '	Write short notes on any two of the following.	15
	(a)	Nuclear Forces.	13
	(b)	Binding energy.	
	(c)	Nuclear Fission.	
	(d)	Cosmic rays.	

Subject: Botany Paper: II

B.S.Ed 3rd Professional Annual 2019

Time: 03 Hrs. Max. Marks: 75

Note: Attempt Five (05) questions, selecting at least one question from each section.

	Section –I	
Q.1:	what is sex determination and write briefly different mechanisms to determine sex in different organisms.	Cerent
Q.2:	Define the term gene expression. Explain in detail the mechanism of gene expression wit reference to Lac operon.	h special 2+7+6
Q.3:	State the Law of Independent assortment. Prove it with di-hybrid cross. Also write about and its use.	test cross 2+8+5
Q.4:	Define Genetic Engineering. Write in brief basic techniques used in genetic engineering.	15
	Section -II	
Q.5:	Write a detail note on following.	5+5+5
	(i) Dormancy (ii) Vernalization (iii) Tropic movements.	
Q.6:	Define term cellular respiration. Explain Glycolysis process with diagrammatic illustration	on. 15
Q.7:	What is transpiration? Discuss factors effecting rate of transpiration. Also write a brief no Structure and function of Stomata.	ote on 2+7+6
	Section –III	
Q.8:	Define Succession. Write its different types and explain the Hydro-sere in detail.	2+5+8
Q.9:	What do you mean by biogeochemical cycle? Write the N- cycle in brief with diagramma	atic

- explanation. 2+6+7
- Q.10: What is water logging? Write its causes and effects in general and especially in Pakistan. Also write methods of reclamation of water logged soil with special reference to Pakistan. 2+6+7

MUST/BSEd-III/A19/C 16

Subject: Zoology Paper: III (Objective) B.S.Ed 3rd Professional Annual 2019

Time:01Hrs. Max. Marks:25

Encir	cle the correct answ	er. Cutting, erasing and over	writing is not allowed.	0.5x20=10
i)	Baleen plates are pr			
	a) Snakes	b) Lizard	c) Whales	d) Frogs
ii)	Ossicles are present	tin		
	a) Arthropods	b) Molluscs	c) Echinoderms	d) Vertebrates
iii)	The aggregation of	nerve cells in the head is		
	a) Nerves	b) Neuron	c) Ganglia	d) None
iv)	The body rhythm is	controlled by		
	a) Thalamus	b) Pineal Gland	c) Cerebrum	d) Cerebellum
V)	Eustachian tubes is	present in the ear of		
	a) Reptiles	b) Mammals	c) Birds	d) Amphibians
vi)	Cyclic AMP activat	tes enzyme		
	a) Adenylatecyclase	e b) Protein Kinase	c) Endonuclease	d) None
vii)	MIH is secreted by			
	a) X organs	b) Y organs	c) Sinus glands	d) None
viii)	The largest RBCs a	re present in	,	ŕ
	a) Birds	b) Reptiles	c) Mammals	d) Fishes
ix)	The foreign protein	s are ingested by		,
	a) Eosinophils	b) Basophils	c) Neutrophils d) Lymphocytes
x)	Which of the follow	ving element is essential for blo	, <u> </u>	
	a) Ca	b) Na	c) Mo	d) Cu
xi)	The vitamin produc	,		,
,	a) A	b) K	c) C	d) D
xii)		ving is pigment is necessary for	,	,
,	a) A	b) K	c) C	d) D
xiii)	Brown fats are four	,	5) 5	-, -
,	a) Amphibians	b) Fishes	c) Birds	d) Mammals
xiv)	Maxillary glands ar		0) 21145	u) 1/14/11/14/15
,	a) Pillbugs	b) Bees	c) Cray Fish	d) None
xv)	,	ony in the embryo is	o) cray rish	u) 1 (0110
/		b) Mesonephrons	c) Metanephros	d) None
xvi)	Gemmules are form	, ·	c) ivicumopinos	a) I (one
1111)	a) Sponges	b) Hydra	c) Amoeba	d) Earthworm
xvii)		embrane first time evolved in	c) Amocoa	d) Laranworm
Avii)	a) Reptiles	b) Amphibians	c) Birds	d) Mammals
xviii)		, <u> </u>	c) blids	d) Maiiiiiais
AVIII)	a) Egg	b) Sperm	c) Penis	d) Vagina
xix)		· -	•	u) vagilla
$\Lambda 1 \Lambda j$	a) Albumin	the cytoplasm of egg is called b) Yolk		d) Cortor
vvl		,	c) Chorion	d) Cortex
xx)		gg contains a large amount of	a) »DNIA	4) +DNI 4
	a) Protein	b) mRNA	c) rRNA	d) tRNA

Ų.		The blanks with appropriate words.	0.	$5 \times 20 = 10$
	i)	The external covering of the animals is called		
	ii)	are thick scales in snakes and turtles		
	iii)	The laminated lipid sheet around the neuron is called		
	iv)	The distinct aggregation of the nerve cells in the head regions are called		
	v)	The form of echolocation is called		
	vi)	The hardening and darkening of the chitinous outer cuticle layer is called _		
	vii)	Release of a mature egg from the ovary is called		
	viii)	The process of white blood cell formation is called		
	ix)	The antibodies are special types of proteins called		
	x)	are bile salts coated lipid aggregates		
	xi)	The mammals which chew their cud are called		
	xii)	The state of slow metabolism and inactivity in summer is called		
	xiii)	is a high protein food present in the breast at birth		-
	xiv)	stimulates urine contraction during labour		
	xv)	The ectoderm spreads over the entire embryo, this process is called		
	xvi)	Humming birds enter into a sleep like state at night, it is called		
	xvii)	cells secret HCl		_
	xviii)	The serosa forms a moist epithelial sheet called		
	xix)	The cluster of alveoli is called		
	xx)	The outer protective covering of heart is called		
O 2	Ind	icata tha atatawa at the same of the		
Q.3	i)	Gular pouch is present in rentiles	,	10×05=5
	ii)	Gular pouch is present in reptiles. Some marine animals like seal have thick blubber	()
	iii)	The opening of pulmonate lungs is known as nephrostome	()
	iv)	Optic tectum is part of fore brain	()
	v)	Cartilage is a connective tissue much softer than bone	()
	vi)	The most rigid form of connective tissue is called cartilage	()
	vii)	Bundles of nerve fibres in the peripheral nervous system is called tract	()
	viii)	The grey matter consist of cell bodies	()
	ix)	Prothoracic glands produce and release ecdysone	()
	x)	T cells mature in bone marrow	()
			`	,

Paper: III (Subjective)

Subject: Zoology B.S.Ed 3rd Professional Annual/19

Time: 2.5 Hrs. Max. Marks:45

NOTE: Attempt any three questions from Part-II and one from Part-III.

PART - II

Q.4.	Discuss skin of mammals.	(10)			
Q.5.	Write a note on Brain.	(10)			
Q.6.	Give an account of mechanisms of hormone action.	(10)			
Q.7.	Write a note on different type of respiratory pigments.	(10)			
Q.8. Discuss role of liver and gall bladder in digestion.		(10)			
PART – III					
Q.9.	Discuss in detail embryology of echinoderms.	(20)			
Q.10.	Give a detailed account of respiratory systems in vertebrates.	(20)			

MUST/B.S Ed/A19/PIII/C 16

Subject: A-Course of Mathematics

B.S.Ed 3rd Professional Annual 2019

Time: 03 Hrs.

Paper: III

Max. Marks: 100

Note: Attempt five questions, at least one question from each section.

SECTION - I

1. (a) Prove that $\forall n(>0) \in \mathbb{Z}$,

 $9|10^n + 3.4^{n+2} + 5$

(b) Find the solution set of 23x - 49y = 179

2. (a) Find the remainder when 7^{23} is divisible by 8

(b) Prove that congruence relation s an equivalence relation in Z.

SECTION-II

3. (a) Prove that if G is a group and H is a subgroup of G , then the set $aHa^{-1} = \{aha^{-1} : h \in H\}$ is a subgroup of G.

(b) Find all the subgroups of a cyclic group of order 18.

- 4. (a) Prove that if H is a subgroup of a group G , then the set of all left(or right) cosets of H in G defines a partition of G.
 - (b) Show that the set $\{\overline{1}, \overline{2}, \overline{4}, \overline{5}, \overline{7}, \overline{8}\}$ under multiplication modulo 9 is
- 5. (a) Let H , k be two subgroups of a finite group G . Prove that for any $g \in G$, $g(H \cap K) = gH \cap gK$
 - (b) In a group G , let a , b and ab all have order 2. Show that ab=ba.
- 6. (a) Given the permutation $a = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 2 & 1 & 4 & 5 & 3 \end{pmatrix}$, verify that a^6 = identity permutation.

SECTION-III

- 7. (a) Show that the vectors (1-i, i) and (2, -1+i) in C^2 are linearly independent over R.
 - (b) Show that the set of vectors $\{(1,2,3),(0,1,2),(0,0,1)\}$ generate \mathbb{R}^3 .
- 8. (a) If A and B are symmetric matirces, then prove that AB is symmetric
 - if and only if A and B commutation [1 2 -3]

 (b) Find the ran of the matrix $\begin{bmatrix} 1 & 2 & -3 \\ 2 & 1 & 0 \\ -2 & -1 & 3 \\ -1 & 4 & -2 \end{bmatrix}$
- 9. (a) Solve the system of equations by Gaussian elimination method

$$x_1 - x_2 + 2x_3 = 0$$

 $5x_2 - 6x_3 = 1$
 $2x_2 - x_3 = -1$

(b) Find the values of λ so that $det(A - \lambda I) = 0$ when

$$A = \begin{bmatrix} -1 & 1 & 2 \\ 3 & 0 & -1 \\ 1 & -1 & 2 \end{bmatrix}$$

10. (a) Show that the system

$$2x_1 - x_2 + 3x_3 = a$$

$$3x_1 + x_2 - 5x_3 = b$$

$$-5x_1 - 5x_2 + 21x_3 = c$$

is inconsistent if $c \neq 2a - 3b$

(b) Show that
$$\begin{vmatrix} 1 & 1 & 1 \\ \alpha & \beta & \gamma \\ \alpha^3 & \beta^3 & \gamma^3 \end{vmatrix} = (\beta - \alpha)(\gamma - \alpha)(\alpha - \beta)(\alpha + \beta + \gamma)$$

Subject: B-Course of Mathematics Paper: IV	B.S.Ed 3 rd Professional Annual 2019
ote: Attempt five questions, at least two	questions from each section.
	Section – I
1. (a) What do you mean by resultant of	of the forces acting at a point discuss t

Time:03Hrs. Max. Marks: 100 n)) m 1) if er er d

(10)

Note	e: Attempt five questions, at least two questions from each section.	
Q.1.	Section – I (a) What do you mean by resultant of the forces acting at a point discuss the magnitude and discording the resultant of two forces P&Q acting at the angle θ at the point '0'	rectio
b)	Forces X,Y,Z, P+Q,P+Z act at a point in the direction of the sides of a regular hexagon taken of way round show that their resultant is a force P+Q in the direction of the forces Q+Y.	ne (10
Q.2.	(a) Evaluate these conditions of equilibrium of a coplanar force system how can be these conditions interpreted.	ions
b)	If forces p AB,qCB,r CD, s AD acting along the sides of a plane quadrilaterals are in equil show that $pr = qs$.	ibriuı (10
Q.3.	C , I	
b)	of the forces must be either concurrent or parallel. Three forces P,Q,R act along the side BC,CA and AB respectively of a triangle ABC prove $PSec\ A+\ QSec\ B+RSec\ C=0$ then the line of the action of the resultant passes through or the of the triangle	cente
Q.4.		(10 (10 uppe vente
Q.5.	 (a) Prove that work done by a force is equal to the sum of the work done by its resolved part for displacement. b) Six equal uniform rods are freely joined at their extremities form a tetrahedron. If its tetrahed placed with one face on a smooth horizontal table prove that the thrust along a horizontal rod is 1/2√6 w 	any (10
Q.6.	Section – II (a) Drive second equation of motion under constant acceleration.	(10
Q.7.	 b) A particle moving along a straight line, starts from rest and it accelerated uniformly till it at velocity v the motion is then retorted and the particle comes to the rest after traversing a total dix if the acceleration is f find the retardation. (a) Define simple harmonic motion. Drive it's equation of motion and calculate magnitude 	tains stanc
	velocity. b) A Partial describing simple harmonic motion have velocity is 5 ft/sec and 4 ft/sec, when their	(10
Q.8.	distances from the center are 12ft and 13ft respectively, find the time period of motion. (a) Calculate horizontal range of the projectile. b) A shell bursts on contact with the ground and pieces from its fly in all direction with all speed	(10)
	to 80 feet per second prove that a main 100 feet away is in danger for $\frac{5}{\sqrt{2}}$ Second.	(10)
Q.9.	(a) Prove that speed required to project a particle from a light h to fall a horizontal distance a from	m the
	point of projection is at least $\int g\sqrt{(a^2+h^2)}-gh$.	(10)
	(b) A cannon has its maximum range R. Prove that,	(10)
	a) The height reached is $\frac{1}{4}RR$ and (b) the time of flight is $\sqrt{\frac{2R}{g}}$	

b) At any time t the position of a particle moving in a plane can be specified by (a coswt, asinwt) where a and w are constant find the components of its velocity and acceleration along the coordinate (10)

Q.10. (a) Calculate radical and transverse components of velocity moving along a curved path.

axes.

Subject: Islamic Culture Paper: V

B.S.Ed 3rd Professional Annual 2019

Time: 03 Hrs. Max. Marks: 100

Note: Attempt any FOUR questions. All questions carry equal marks.

نوٹ: مندرجہ ذیل میں سے کوئی چار سوالات کے جوابات تحریر کریں۔ تمام سوالات کے نمبر مساوی ہیں۔

Q.No 01. Write a comprehensive note on zakat system of Islam and its spiritual, Moral and Social Impact.

Q.No 02. Describe in detail the basic characteristics of Islamic Civilization.

Q.No 03. Argue for the supremacy of Wahi as the solution of human problems against other sources of knowledge.

Q.No 04. Stability of modern society depends upon a strong family system, Discuss it in the light of Islamic principles.

Q.No 05. Discuss the main features of Islamic Political system in the light of governance under pious Khilafat-e- Rashida.

Q.No. 06. What is the Impact of the Belief on the life after death on human life? Discuss in detail

Q.No 07. Describe the importance of Deen in human life with arguments.

Q.No 08. Discuss in detail the Economic system of Islam in the light of Quran and Hadith.

B.S.Ed 3rd Professional Subject: School Society & Time: 03 Hrs. **Teacher** Paper: VI Annual 2019 Max. Marks: 100 Note: Attempt any five questions. All questions carry equal marks. نون: مندرجه ذیل میں سے کوئی یا فچ سوالات کے جوابات تحریر کریں۔ تمام سوالات کے نمبر مساوی ہیں۔ Q.01. Explain the Islamic concept of society. Also put light on concept of education & society. سوالنمبر 1_معاشرہ کے اسلامی تصور کی وضاحت کریں نیز تعلیم اور معاشرہ یر تفصیلی روشنی ڈالیں۔ Q.02. Put light on role of social institutions and their role in educational progress. سوالنمس 2۔ ساجی اداروں اور ان کے تعلیمی ترقی کے حوالے سے کر داریر روشنی ڈالیس۔ Q.03. What is culture? Write note on different components of Pakistani culture. سوالنمبر 3۔ ثقافت سے کیامر ادہے؟ پاکستان کی ثقافت کے مختلف اجزاء پر نوٹ ککھیں۔ Q.04. Put light on role of teacher in school curriculum. سوالنمس 4۔اسکول کے نصاب میں استاد کے کر دار پر روشنی ڈالیس۔ Q.05. Put light on role of teacher in the development of society in detail. سوالنم ₅۔ معاشر ہے کی ترقی میں استاد کے کر دار کی تفصیلی وضاحت کریں۔ Q.06. Write Note:

i. Mosque & School

ii. Teacher as builder of Nation.

سوالنمبر6_نوٹ لکھیں۔

Q.07. Write the personal & Professional characteristics of a teacher.

Q.08. Write Note:

. Society & its Characteristics. ii. Environmental Education

سوالنمبر8-نوٹ لکھیں۔

الف) معاشر ه اور اسكى خصوصيات ب) ماحولياتی تعليم

Subject: Guidance &

Counseling

B.S.Ed 3rd Professional

Time: 03 Hrs.

Paper:

VII

Annual 2019

Max. Marks:100

Note: Attempt any five questions. All questions carry equal marks.

Q.No 01. Write two definitions of guidance. Write its importance at school level in Pakistan.

Q.No 02. Write the qualities of counselor. Put light on role of counselor at school level.

Q.No 03. Explain the procedure of guidance at group level in detail.

Q.No 04. Write note on importance of information for guidance at school level.

Q.No 05. Write the steps of counseling in detail.

Q.No. 06. Write note.

i. Interview

ii. Autobiography.

سوالنمبر6- نوٹ لکھیں۔

۲_ آڻوبائيو گرافي

ا_انٹر ویو

MUST/BSEd-III/A19/C46

Subject: Arabic

B.S.Ed 3rd Professional

Time: 03 Hrs.

Paper: VIII

(30)

Annual 2019

Max. Marks: 100

مندرجہ ذیل میں سے دواجز اء کا ترجمہ کھیں۔ عربی جملے بھی ساتھ کھیں۔ (30)الف) ١ ـ هذِه دَرَّاجَةُ الْوَلَدِ ٢ ـ تِلْكَ مِرْوَحَةُ السَّقْفِ - ٣ ـ ضَوْءُ النَّهَارِ قَوِيُّ - ٤ ـ هذَا طِفْلٌ جَائِعٌ - ٥ ـ أُسْتَاذِيْ رَجُلٌ صَالِحٌ ـ ٦- ذٰلِكَ لَاعِبُ سَرِيْعُ- ٧- مَاذَا فَوْقَكَ؟ ٨- ٱلْعَلَمُ أَمَامَ الْمَدْرَسَةِ- ٩- نَعَمْ عِنْدِيْ كِتَابُ- ١٠- ٱلصُّوْرَةُ عِنْدَ النَّا فِذَةِ-

- ١ آخَذَ رَيْدُ كِتَابًا ٢ ـ دَخَلَ الرَّجُلُ فَي مَنْزلِنَا ٣ ـ ضَحِكَتْ فَهْمِيْدَةُ ٤ ـ مَنْ فَتَحَ الْبَاب؟ ٥ ـ مَاذَا كَتَبَ ذَيْدُ؟ ٢ ـ ٱلْمَدِيْرُ مَنَحَ الْجَائِزَةُ ٧- يَسْقُطُ الْوَلَدَلَدُ مِنَ الدَّرَّاجَةِ - ٨- تَدْخُلُ الْاسْتَاذَةُ فِي الْفَصْلِ - ٩- اَسْمَعُ الْكَلَامَ الْمُفِيْدَ - ١٠ نَطْلُبُ إِجَازَةً -
- ١ اَلْبِنْتُ تَحْمِلُ السَّلَّةَ ٢ حَزِنْتَ مِنَ الْخَبْر ٣ سَكَنَ الصَّوْتُ ٤ اَنَا نُمْتُ هُنَا ٥ خِفْتُ مِنَالظَّلَام ٦ أَخَافُ مِنَ اللِّصِّ (%) ٧ - أَيْنَ تَقَعُ الْمَدْرَسَةُ؟ ٨ - آعِدُكَ بِالْإِخْلَاصِ ٩ - نَقِفُ فِي صَفٍ وَاحِدٍ ١٠ - جَرَيْتَ بِالدَّرَّاجَةِ -

سوائم 2_مرک اضافی سے کیا مراد ہے؟ اس کے اجزا ایکھیں اور یانچ مثالیں دیں۔ (20)مرکب توصفی سے کیامراد ہے؟ اس کے اجزاء کھیں اور یانچ مثالیں دیں۔

سوائم ر 3۔مندرجہ ذیل افعال سے اسم فاعل بنا کرایک ایک جملہ بنایئے۔ (صرف پانچ) نیز بتائے کفعل ماضی سے اسم الفاعل بنانے کا کیا طریقہ ہے؟ (10) صَدَق قَتَل َ جَلَس َ حَمَل عَرَف َ ذَهَبَ

(10)سوالنم 4_مندرجه ذیل سوالات کے عربی میں جوابات دیں۔

١- هَلْ هُوَ فَوْقَ الْمَنْزل؟ ٢- هَلْ هِيَ تَحْتَ الشَّجَرَةِ؟ ٣- مَاذَا عِنْدَكَ؟ ٤- آيْنَ كِتَابُكَ؟ ٥- مَاهٰذِهِ الْأَشْيَاءُ؟

سوالنمبر 5_مندرجه ذیل میں سے دس جملوں کاعربی میں ترجمہ کریں اور عربی جملے بھی لکھیں۔ ا۔وطن کی محبت ایمان میں سے ہے۔ ۲۔ مسجد اللہ کا گھر ہے۔ ۳۔ تیری کتاب نئ ہے۔ ۴۔ استاد کا بیٹا مجھدار ہے۔ ۵۔ گھر کا دروازہ کھلا ہے۔ ۲ سکول کی کھڑ کی کشادہ ہے۔ ۷ ۔ یہ جی آ دمی ہے۔ ۸ ۔ بیارآ دمی غیر حاضر ہے۔ ۹ ۔ کڑوی دوامفید ہے۔ ۱۰ ۔ وہ آج سکول نہیں جائے گا۔ اا۔ ہم قلم گنتے ہیں۔ ۱۲۔ فاطمہ گھرواپس آئی۔ ۱۳۔ توباغ کی طرف دیکھتا ہے۔ ۱۸۔ زیدنے قلم سے کھا۔ ۱۵۔ آپ نے کب جج کیا؟ ۱۷۔ میں گیند سے کھیاتا ہوں۔ کا۔ سعید نے گیند جھینگی۔ ۱۸۔ہم نے اللہ سے دُعاما نگی۔ ۱۹۔میں مدینہ منورہ نوم شبہ گیا۔ ۲۰۔ آدمی نے دوقلم خریدے۔

Paper: IV

Subject: Chemistry B.S.Ed 3rd Professional Annual 2019

Time:03Hrs. Max. Marks:75

Note: Attempt any five questions. All questions carry equal marks

		_ · · ·	
Q.1.	(a)	State the rules for writing resonance structure. Explain with examples	1(
	(b)	Explain tautomerism with examples	05
Q.2.	(a)	How alkanes are prepared by	09
		(i) Corey house method (ii) Alkyl halide	0,
		(iii) Carbonyl compounds	
	(b)	Discuss the Freund reaction and Simmons-Smith reaction for the preparation of	06
		cycloalkanes	00
Q.3.	(a)	Discuss the following reactions	10
		(i) Williamson's ether synthesis (ii) Reimer-Tiemann reaction	1 (
		(i) Diazo-coupling reaction of (ii) Alkoxymercuration-demercuration of	
		phenol alkenes	
	(b)	Write the structural formula of the following compounds	05
		(i) carbolic acid (ii) Catechol (iii) Phloroglucinol (iv) Aspirin (v) 2-Anthranol	0.5
Q.4.	(a)	Explain the following terms by giving examples for each	10
		(i) Enantiomer (ii) Puckered ring	10
		(iii) Flagpole interaction (iv) Centre of symmetry	
		(v) Dihedral angle	
	(b)	Write the sequences rules for R, S nomenclature	05
Q.5.	(a)	What is Grignard reagent? Discuss its reaction with	10
		(i) Active hydrogen compounds (ii) Carbonyl compounds	10
		(iii) Alkyl nitrile	
	(b)	Discuss any two general reactions of alkyl halide	05
Q.6.	(a)	Explain aldol condensation and Benzoin condensation	08
	(b)	Discuss the cannizzaro's reaction and Baever-villiger oxidation reaction	07
Q.7.	(a)	what is pyrrole? Describe four methods for preparation of pyrrole	10
	(b)	Explain the Hinsberg test to distinguish between primary, secondary and tertiary	05
		amines	00
Q.8.	(a)	Define Saytzeff's rule and Markovnikov's rule by giving suitable examples	05
	(b)	what are the carboxylic acids and carboxylic acid derivatives	05
	(c)	How acid chloride is converted into acid anhydride. Explain it with mechanism	05
Q.9.		What are the Disaccharides? Discuss the structure and properties of maltose and	10
		sucrose.	10
		Draw the structure of starch and cellulose	05
Q.10.		Write notes on the following:	15
	(a)	Friedel-Crafts acylation of benzene	10
	(b)	Optical activity	
	(c)	Basicity of pyrrole	