# AJKBISE Mirpur H.S.S.C. Part-I (11th) Class Model Papers

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nglish, Uniti, Isimmer Studies, Physics, Chemister, Biology

Note:- The Model Papers of the aforementioned subjects are being circulated for the guidance of students and teachers. The Intermediate Part-I (Class XI) Examination 2011 and onward will be conducted according to these Model Papers. The questions given in these Papers do not have any importance but to provide guidance only. The paper setter is authorized to ask any question from the syllabus according to the Model Papers. However, original question papers may have the close resemblance with the Model Papers. The Learning Achievements of the candidates will be Judged on the basis of his knowledge, Comprehension, Application and Analysis skills.

# MODEL PAPER 'ENGLISH'

#### **Intermediate Part-I Examination**

#### **OBJECTIVE**

#### Marks: 20

5

Note:Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank.

Q.No.1. Encircle correct answer like A,B,C or D to the following questions: 10

"Oh,yes". Norma repressed a smile. She was sure now it was a <u>sales-pitch</u>.
 (a) Persuasive talk
 (b) do business
 (c) cunning
 (d) allurement

Time: 30Minutes

- (ii) I had never seen anything extraordinary upon this high point of <u>rugged</u> land. (a) fertile (b) rough (c) even (d) smooth
- (iii) The children with their yellow hair <u>hollered</u> at the deep dome of martian sky. (a) yelled (b) cried (c) looked (d) pointed to
- (iv) I had a <u>vexing</u> dream one night. (a) nightmare (b) happy (c) disturbing (d) joyful
   (v) He had been, perhaps, too deeply <u>engrossed</u> in himself. (a) absorbed (b)busy (c) interested (d) annoyed
- (vi) The first Man reads a <u>discarded</u> newspaper, (a) decorated (b)interesting (c) old (d) rejected
- (vii) Ellen <u>fidgets</u> as she listens the broadcast of her father. (a) feels restless (b) slumbers (c) enjoys (d) sits down
- (viii) Miss Mc Cutcheon wanted to <u>quit</u> and go back home. (a) earn money (b) give up (c) teach (d) be quiet
- (ix) We have no time to stand and <u>stare</u>. (a) sense (b) wait (c) gaze (d) see
- (x) I met a traveller from an <u>antique</u> land.
   (a) unique
   (b) ancient
   (c) remote
   (d) alien

Encircle correct answer like A,B,C or D to the following questions:

- (xi) How were the people of Hurbert's village destroyed? (a)by war (b)by illness (c)by flood (d) by plague
- (xii) What was the trial shot of the doctor about the sick girl?
   (a) flu
   (b) fever
   (c) diphtheria
   (d) sore throat
- (xiii) Which one is a desert state sweltering with the heat of injustice and oppression?
   (a) Georgia (b) Mississippi(c) Alabama (d) Virginia
- (xiv) What is the age of the girl in "The Heat Lighting? (a) 20 (b) 21 (c) 22 (d) 23

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## MODEL PAPER "ENGLISH" Intermediate Part-I Examination

#### SUBJECTIVE

Time: 2:30Hours

Marks: 80

12

#### SECTION -I

Note: Out of Questions No.2 opt any 6 questions, Out of question No.3 opt any 5 questions and out of question No.4 opt any 4 questions. While writing answer, write question No. carefully.

#### Q.No.2. Write short answers.

- (i) Why did Norma want to get \$ 50,000?
- (ii) Why did Jess not want to go with his old father?
- (iii) What was the condition of the Bittering family on hearing the news of war on the earth?
- (iv) Why did Mrs. Jones ask the boy to wash his face and comb his hair?
- (v) Why did Manana accuse Hubert of picking the lost pocket book?
- (vi) What was Gorgious's ambition?
- (vii) What is the dream of Martin Luther King?
- (viii) Why did Della sell her hair?
- (ix) What things were found in the various pockets of the overcoat?

#### Q.No.3. Write short answers.

- (i) What is the condition of the girl when she enters the bus station?
- (ii) How does the girl come to know that the first man is the killer?
- (iii) Who is Kreton?
- (iv) How does Kreton impress General Powers?
- (v) What is the purpose of Kreton's journey to the earth?
- (vi) Why does Clay need money?
- (vii) What does Miss Mc Cuteheon think about children of the town?
- (viii) Why does Clark Larrabee return home?

#### Q.No.4. Write short answers.

- (i) What does the Night Mail bring?
- (ii) What did the reader tell the rider about the valley?
- (iii) Why does the poet feel impressed by the Sindhi Woman?
- (iv) Who was Ozymandias?
- (v) What is the moral lesson of the poem "A Tale of Two Cities".?
- (vi) How do the attributes of God exercise their influence on man's character?

#### SECTION -II

Q.No.5. Write a letter to your cousin suggesting him/her some books to improve his/her 10 English.

#### OR

Write an application to the Principal of your college requesting him/her to allow you to change your subject (s).

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Q.No.6.	Wr	rite a story bearing the moral: A Stitch in Time Saves Nine. 10	
	No	cessity is the Mother of Invention.	
Q.No.7.		Explain the following lines with reference to the context. 5 They take it, break it open, let A gold or silver fountain wet. Mouth, fingers, cheek, nose, chin: Radiant as lanterns, they forget The dark street I am standing in. 5	
	(b)	Punctuate the following extract from Book-I 5	
		and jess he almost whispered the doctors told me to sit still and to take life easy I could not do it I had to work I had to go back	
. 51	(c)	Use any Five of the following pair of words in your own sentences: 5	
		(i) Accede; Concede (ii) Barren; Baron (ii) Device; Devise (iv) Human; Humane (v) Tail; Tale (vi) Vain; Vein (vii) Vale; Veil	
Q.No.8.		Translate the following passage into Urdu (Short Stories Book-I). 15	•
а Ц		When the couple had walked some hundred yards ahead of him, he hurriedly started after them. Hardly had he reached half way across the road when a truck full of bricks came from behind like a gust of wind and crushing him down speeded off towards McLeod Road. The driver of the truck had heard a shriek and had actually for a moment slowed down, but realizing that something serious had happened, had taken advantage of the darkness and had sped away into the night. Two or three passers-by who had witnessed the accident should "Stop him" take the number," but the truck was no more to be seen.	1
		Candidates whose medium of Examination is English will write an essay on 15 "Examinations".	

ماڈل پیپر"اردو" برائے انٹرمیڈیٹ امتخان پارٹ-۱ حصہ معروضی روهم : بندسول ش وقت: 20 من القاظشر 20: 20: لوث: ابتارولمم صرف محق جد رتر يكري-تمام والات 2 جوابات اى كانى يرجر وال كرسا مندى كى بدايات كرمطابق عل كري-كات كرياكى بحى طريق ب مناكر باليديشل ب كليرو ي جوابات فلط تعور مول 2-وال نمر 1- فتقر جواب ترييج 5=1x5 (i) اسلام تمام اندانو راوس كاج على داوي ب دنیا کامترزتو موں نے س فولی کا وجد از ت پائی ؟ (ii) الدالقاسم وحرادى كى مشرورتعنيف كاكيانام ي (iii) لیک کے باب کی وطافی کیوں جاتی رہی؟ (iv) علامها قبال كالقم "اسرارخودى" كاعربى ترجهكون كرانا يا بتا قها؟ (v) سوال نمبر 2- (الف) تشعیسه کی تعریف تیجیخ اور دومثالوں ے د ضاحت تیجیز۔ 5=2+3 (ب)مقطع كى تعريف يج اوردوثالول ، وضاحت يجد 5=2+3

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(2)	تذكيروتا نيد كويدنظرر كم مو خدر في ذ	لى جملول كودرست يحيخ - 5=1x5
(i)	وزي تعليم في يرسون طف الممالى-	
(11)	مرى تلم تواصورت ب-	
(iii)	الركول في مردامتوان ش اددهم مجاركما	
(iv)	مروكوں يرتاركول بچمائى جارى ب-	And a start of the start start, here, our
(v)		

مادّل پيپر"اردو" برائ انثرميذيث امتحان يارث-١ حانثاني 80: 25 وت: 2:40 كمنا حصراول سوال نمبر 3- درج ذيل اشعاركي تشريح يج الظم كاعنوان ادرشا عركانا م بحى تريي يج 10=1+1+8 (الف) بعين كالتدود، يدم في كاذراغ يكسان بالمع زعدكى ادرموت كاعالم والف نديرى ب درمين ب دواك دم ندشب كالمعيبت متدبحى روزكاماتم دن رات ، گمر کاییر ، مدوسال شر خوش این يور ين بن والى مردجو برحال شى توش بن

10=1+9

(ب)ورج ذیل اشعار کی تشریح تیج اور شاعر کانام بھی تری تیج ۔ آفاق کی منزل سے گیا، کون ملامت اسباب لظرار میں میں برسفری کا برز قم بیگر ردادر تحشر سے دمارا انصاف طلب بے متری بیدادگری کا لے سائس تھی آہت، کستاذک ہے، بہت کام

Tat Sind Charles

حصدوم سوال نجر 4-سیاق دسباق کے حوالے سے کسی ایک جزو کی تشریح تجیج مصنف کانام اور میں کاعنوان بھی تحریر تجیج -1+1+3+10=15

> (الف) عزم واستقلال بشجاعت بصر، اوکل، رضا، تقدیر معینوں کی برداشت، قربانی، قتاعت، استدنا، ایکار، جود، تواضع، خاکساری، سکنت، نشیب دفراز، بلندویست، تمام اخلاتی پہلووں کے لئے جو مختلف انسانوں کو مختلف حالتوں میں با برانسان کو مختلف سور توں میں بیش آتے ہیں - ہمیں علی جوامت اور مثال کی شرورت بے جو صرف یو خبر اسلام محلقہ کی مواضح میں ال سکتی ہیں۔

(ب) محنت اور جفائش کی تابلیت بھی سرسید کے خاص اوصاف میں سے تھی بعظم نظراس کے کدابتدا سے ان کوکا م کرنے کی عادت رہی۔ ان کے تو کی شی فطر تا مشکلات کے برداشت کرنے اور کس کام سے ہمت ندبارنے کی لیا قت اورا ستحدادر کھی گئی تھی اور ظاہر أ ان کی غیر معمولی ذہانت بھی ان کے دائی غور وفکر اور دما فی محنت کا نتیج تھی۔

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موال نمبر5-مندرجدة بل مي ب كالك فصالي من كاخلام كم ورمصنف كانام بحى ترييج -10 = 1 + 9(i) ادیب کارت (ii) سارش موال تمبر 6-علامدا قبال كالمم" يعام" كاخلاصة ريحيح-5 سوال فمبر 7-امتحاني نظام ي موضوع يردودوستول يدرميان مكالمرتج يريجي-10 كالج كي جليد تقسيم العامات كى روداد لكه -(روز بام مح متعلق بح سوال يو چها جاسك ب) موال تمبر 8 \_ كريم شيكيث كر صول كر التي رسل صاحب كما م درخواست للحف-10 (رسيد متعلق بحى موال يو يها جاسكتاب) سوال تمبر 9\_درج ذيل حمارت كى تلخيص يحيجة ادرمناسب عنوان تجرير يحجة -10=2+8 ام و يحت من كدد فاش دوم كاوش من مان ش ال عدا ي فات الدواداكود ورور كال ك ما في اوادرا قاش سمود والجركر ان علوم وفون كوان يرطر يدمعاشرت كوكال مجمادداى كالمروى يدعى معدو برقى ورقى ورقى ورق کا خذوا بیاد ر به کدکوشش فیس کی- دوسری قوم نے کی کوکان فیس مجمادور بعیشد ترقی، في علوم دفتون ادرطريقة محاشرت سے ايجاد مى كوش كرتى رى اب د كيدان دواو باد مول مى كيافرق جادركون ترقى ادركون تتولى كى حالت ش ب-

مادل يبير"اسلاميات (لازمى) برائے انٹرمیڈیٹ امتحان پارٹ۔ا حصہ معروضی

كل نمبر:10

وقت: 15 منك

سوال نمبر 1- تمام سوالات کے جوایات دی تن جوابی کانی رکھینے - ہرسوال کے 4 (جار) مکند جواب A، B، B، B، C، B ديت الح ين جواب كوآب درست بحس جوالى كالي يراى وال فمر حرام مر المركار ساستدیج تحدداتروں ش سالیک دائر کوچن یا ارکر کی سابق سے جروی -

-				عقيده بح متى إر-	(i)	
	(,) معکل کشانی	2 Jablas (3)	(ب) ځادى بونا	(الف) عقيدت متدى		
				2 " " الهة" بح	(ii)	
	(ر) لُوْه کی	(ج) الأسى	(ب) لَهُوْ حى	(الف) الله كي		
				محفوظ كماب ب-	(iii)	
	(د) قرآن بجير	(ج) كتابالالار	(ب) زير	(الف) بخارى شريف		
				اركان اسلام مى بى -	(iv)	
	(د) البای کتاب پایمان	(5)100	(ب) آخرت پريفين	(الف) لماتكر بما يمان-		
				جهاد کے لفوی معنی بیں۔	(v)	
	(و) ونيات بروشق	(2) كشرك	(ب)جديد عم حاص كرنا	(الق)روزىكمانا		
				الملاق" ٢٠٠٠ الملاق	(vi)	
	(د) کنیه پردری	(ج)غلی	(ب) إدثاء	(الق ) ما لک بونا		
				······································	(vii)	
	(،) پاتور	(ج) فمونہ	(ب) شهری فسیل	(الف) مردارمونا		
				كليمبر كلفوى معى إلى-	(viii)	
	いがい)	(ج) برداشت کرنا	(ب) بغدينا	(الف) آکے بڑھنا		
				بامع قرآن لقب ب-	(ix)	
	(د) حضرت ديدين البت	(ج) معرت مان	(ب) حر الدير مدين	(الف) حضرت على		
			Colona and the	"وذد" ٢٠ تاي -	(x)	
	(ر) تکلیف	R. 2 (2)	(ب) زیاری ا	(الف) وزيرة		

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مادل يبير"اسلامياد برائ انثرميذيث امتحان يارث-ا حدانثاني 40:25 وت:1:45 كف نوف- سوال تبر2،3اور 4 ش ب كونى ب 12 (باره) مختفر سوالات كرجوا بات تريكري جواب تريكر تر وقت سوال كا אק א א א א א حصراول سوال تمبر 2- مخصر سوالات کے جوابات تحرير كري-12x2=24(i) -そうわじいくう (ii) -差しみなしたししとし (iii) -251712 UNISULATE (iv) توحيد بارى تعالى بے متعلق كى آية قرآنى كار جرقر ريجے۔ (v) قرآن عم كاجاراتم خصوصات قري يجت-(vi) موال فمرد- مخفر سوالات 2 جوابات تريكري-1251 301-10 250 (i) سوف اور جاعرى كانساب في يجف-(ii) جادكات المراجح (iii) فيبت كن دوموراول عرجا تزبي؟ (iv) دين كرستون تماز كركوكى دونوا تدقر ايجر · (a) 2-3 times that of (v) (vi) سوال تمر 4 محقر سوالات 2 جوايات تريكري-مادات ا متعلق مفورا كرمين في تجد الوداع عن كيافر مايا؟ (i) ذكرالى ككولى دواقسام ويجت (ii) امت يشفقت ورجت كم تعلق رمول كريم يتف كاحد يد ممارك كاتر جريح ير يحد (iiii) いたんこしい (iv) لَقَدْ كَانَ لَكُمْ فَيْ رَسُوْلُ اللَّهُ 251327854 (v) ي حم التاس مدين ماركاز جرم ركار حمة الله من لا (vi)

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#### S" **MODEL PAPER "PHYSIC** Intermediate Part-I Examination min a group and

#### OBJECTIVE A daubte convex fore acts at a divisibility tena when the object is:

Time: 20 Minutes

Marks: 17

Succession	(c) destance with instrume of and and all of these
Q.No.1	Note: Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank.
(i)	The dimensions of Moment of inertia are (a) $ML^{-2}$ (b) $ML^{2}$ (c) $M^{2}L$ (d) $ML$
(ii)	The resultant of two forces 10 N and 8 N cannot be: (a) 2N (b) 18N (c) 12N (d) 20N
(iii)	i.(jxk) (a) i (b) j (c) k (d) l
(iv)	The velocity - time graph is parallel to Time - axis, the acceleration of the moving body is
(v)	<ul> <li>(a) Positive</li> <li>(b) Negative</li> <li>(c) Zero</li> <li>(d) Maximum</li> <li>A body of weight 5 N falls though a height of 10m. Its energy 5m above the ground is:</li> </ul>
(vi)	<ul> <li>(a) 25J</li> <li>(b) 50J</li> <li>(c) Both 'a' and 'b'</li> <li>(d) 75J</li> <li>The weight of man in a elevator moving down with an acceleration 9.8 ms<sup>-2</sup> will become:</li> <li>(a) Half</li> <li>(b) Double</li> <li>(c) Unchanged</li> <li>(d) Zero</li> </ul>
(vii)	(a) Half(b) Double(c) Unchanged(d) ZeroThe moment of linear momentum is called:(a) Impulse(b) Torque(c) Angular Momentum(d) Couple
(viii)	High concentration of red blood cells increases the viscosity of blood from(a) $2-3$ times that of water(b) $3-4$ times that of water(c) $3-5$ times that of water(d) $4-5$ times that of water
(ix)	The product of time-period and frequency is equal to: (a) 3 (b) 2 (c) 1 (d) 0
)+ (x)	The velocity of sound in Hydrogen as compared to Oxygen under similar condition is: (a) ¼ the velocity of O2 (b) Four times the velocity in O2 (c) ½ the
(xi)	velocity in O2 (d) Two times the velocity in O2 When two notes of frequencies $f_1$ and $f_2$ are formed. If $f_1 > f_2$ , then frequency of beats is:
(xii)	(a) $f_1 + f_2$ (b) $f_1 - f_2$ (c) $\frac{1}{2}(f_1 + f_2)$ (d) $\frac{1}{2}(f_1 - f_2)$ Light from sun reaches the earth in the form of: (a) Cylindrical wave front (b) Spherical wave front (c) Plane wave fronts (d) All the above

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		-10-	
(xiii)	The central part of Newton's Ring to the reason that;	gs when observed	with reflected light is dark due
	(a) The part of ray reflected from shift of 180 <sup>°</sup> (b) The reflection phase shift of 180 <sup>°</sup> (c) The undergoes a phase shift of 180 <sup>°</sup>	on from upper surf reflection from low	face of air film undergoes a wer surface of air film
(XIV)	A double convex lens acts as a div	erging lens when t	he object is:
	(a) Inside the focus (b) Awa (d) On 2f	y from 2f	(c) Between f and 2f
(xv)	Least distance of distinct vision:	- HONDY PE	
	<ul><li>(a) Increase with increase of age</li><li>(c) decrease with increase of age</li></ul>		same with increase of age
(xvi)	Pressure of an ideal gas in terms a (a) $P = Pv^2$ (b) $P = \frac{1}{3}Pv^2$	nd conditions of it	s density can be written as:
(xvii)	Which of the following forces is in	reversible:	and dolder asians
	(a) Slow compression of an	(b) Slow evano	ration of a substance on an
	clastic spring	insolated ve	sscl and a substance on an
	(c) Slow compression of a gas		explosion

# MODEL PAPER "PHYSICS" Intermediate Part-I Examination

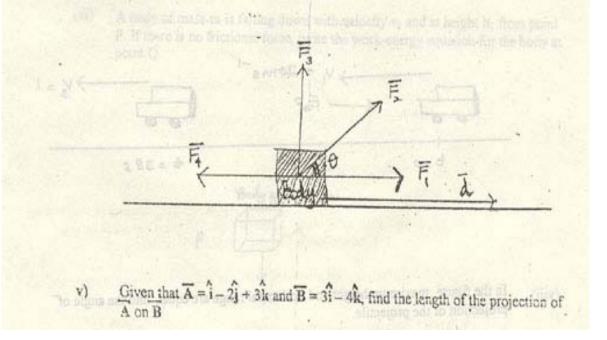
#### SUBJECTIVE

#### SECTION-1

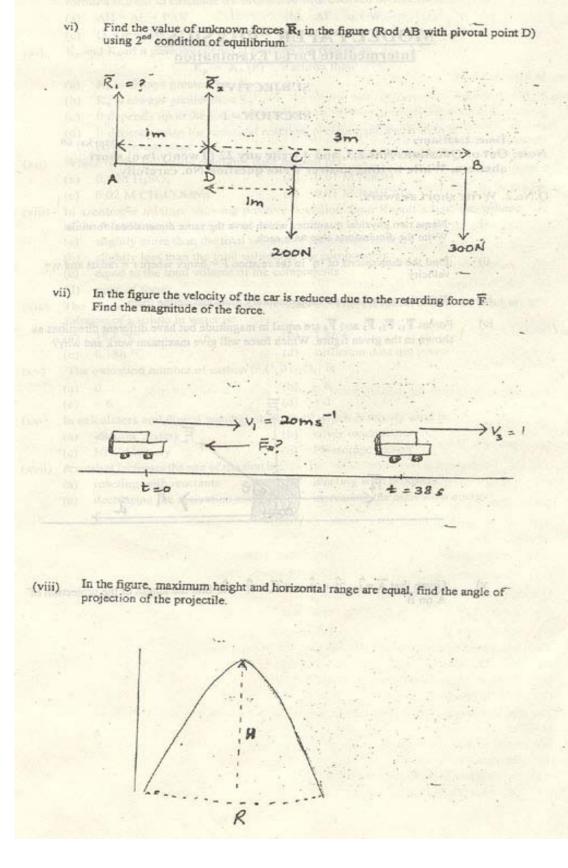
Time: 2:40Hours Note: Out of Questions Nos.2,3, and 4 write any 22 (Twenty two) short answers. While writing answer write question No. carefully.

Q.No.2. Write short answers.

- i) Name two physical quantities which have the same dimensional formula. Write the dimensions also with each
- ii) Find the dimensions of ' $\eta$ ' in the relation F =  $6\pi\eta rv$  where r = radius and v = velocity
- iii) Write the names of two supplementary units and define them
- iv) Forces F<sub>1</sub>, F<sub>2</sub>, F<sub>3</sub> and F<sub>4</sub> are equal in magnitude but have different directions as shown in the given figure. Which force will give maximum work and why?

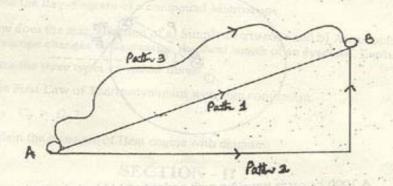


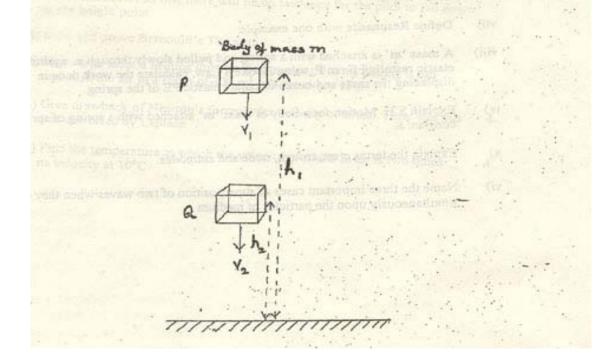
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AJK Board of Intermediate & Secondary Education, Mirpur www.ajkbise.net (HSSC PART-I Model Papers) Page 15 of 46 Prove that power is a scalar product of force and velocity.

(x) In figure there are three paths between points A and B. On which path the work done in moving a body from A to B will be maximum or will it remain the same.





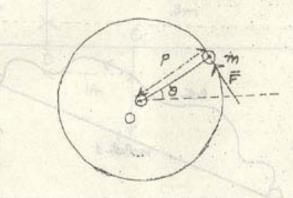
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(ix)

<sup>(</sup>xi) A body of mass m is falling down with velocity v<sub>1</sub> and at height h<sub>1</sub> from point P. If there is no frictional force, write the work-energy equation for the body at point Q.

# Q.No.3. Write short answers.

 Figure shows a mass m attached to a mass-less rod at 0 (pivot point). A force is applied on it as shown Find the value of TORQUE in terms of moment of inertia I and angular acceleration 'a'.



11)	A 1000 kg car is traveling with a speed of 144 kmh-1 round a curve of 100 m. Find the necessary centripetal force.
iii)	Describe what should be the minimum velocity for a satellite, to orbit close to the earth around it.
iv)	State the Torricellis' Theorem with diagram
v)	Explain the difference between laminar flow and turbulent flow.
VI)	Two row boats moving parallel in the same direction are pulled towards each other. Explain.
vii)	Define Resonance with one example
viii)	A mass 'm' is attached with a spring and pulled slowly through x <sub>0</sub> against the elastic restoring force F, using Hooke's Law, calculate the work done in displacing the mass and hence calculate elastic PE of the spring.
ix)	Explain S.H. Motion for a body of mass 'm' attached with a spring of spring constant k
x)	Explain the terms crest, trough, node and antinodes.
xi)	Name the three important cases of superposition of two waves when they act simultaneously upon the particles of medium.

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#### Q.No.4. Write short answers.

- i) What is Huygen's Principle?
- What is Total Internal Reflection?
- Draw the diagram of Michelson's Interferometer and write the equation by which we can find the displacement L of the mirror.
- iv) Define Grating Element
- v) How is the distance between interference fringes affected by the separation between the slits of Young's Experiment?
- vi) Draw the Ray-diagram of a compound Microscope
- Vii) How does the magnification of a) Simple microscope and b) Astronomical Telescope changes by decreasing the focal length of an eyepiece. Explain.
- viii) Name the three types of optical fibres.
- ix) State First Law of Thermodynamics with sign conversion
- x) Why  $C_p > C_v$ ?
- xi) Explain the principle of Heat engine with diagram

# SECTION - II

rvote:	- Attempt any THREE questions. (8 x 3	3) = 24	
Q.N.	o5. (a) Define Vector Product of Two Vectors with examples. State right his Show that A X B = - B X A.	and rule, 4	
	(b) Find the angle between vectors, $\overline{A} = 5\hat{i} + \hat{j}$ and $\overline{B} = 2\hat{i} + 4\hat{j}$	4	
Q.Ne	o6.(a) Derive an expression for Centripetal Force.	4	
	b) What is the least speed at which an aeroplane can execute a vertical I of 1.0 km radius so that there will be no tendency for the pilot to fall at the height point.	oop down	
Q.No	7. (a) State and prove Bernoulli's Theorem.	4	
	(b) How large must a heating duct be if air moving 3 0 ms <sup>-1</sup> along it can replenish the air in a room of 300 m <sup>3</sup> volume every 15 min.		
Q.No8	(a) Give drawback of Newton's formula for velocity of sound. How was was corrected by Laplace.	this 4-	
	(b) Find the temperature at which the velocity of sound in air is two time its velocity at 10°C.	s 4	

# MODEL PAPER "CHEMISTRY" Intermediate Part-I Examination

# **OBJECTIVE**

K, and K. of a property of the

Time	e: 20 Minutes		Marks: 17
Q.N	Io.1 Note:Write answers to the queprovided. You have four choices for and D. The choice which you think question number. Use marker or per- more circles will result in zero ma question as given in objective-type question	each is con to fil ark in	objective type question as A, B, C, rrect; fill the circle in front of that I the circles. Cutting or filling to or that question. Attempt as many
(i)	Which of the following has least mass?		
	(a) 1 mole of S	(b)	7.0 g of Ag
	(c) 2 g atom of nitrogen	(d)	
(ii)	The rate at which the solute moves in p	aper el	hromatography depends upon:
	(a) the distribution coefficient	(b) 1	the distribution law
	(c) the boiling point of the solvent	(d) 1	Low partial pressures
(iii)	The formula for density of a gas at a giv	ven ter	nperature and pressure is:
	(a) $d = \frac{P}{RT}$	(b) c	$I = \frac{PM}{RT}$
	(c) $d = nP/RT$	(d) d	$\frac{M}{1} = \frac{M}{V} = \frac{1}{V} \frac{M}{V} = \frac{1}{V} \frac{M}{V} \frac{M}{V} = \frac{1}{V} \frac{M}{V} \frac{M}{V} = \frac{1}{V} \frac{M}{V} $
(iv)	In order to maintain the boiling point should be:	of wa	ater at 110°C, the external pressure
	(a) 550 torr	(b) b	between 500 and 760 torr
			my pressure can be maintained
(v)	The CI <sup>O</sup> ion present at the corner of the	unit c	ell is NaCl crystal, contributes:
112	(a) 1/8 th standsord fills guilt.	(b) 1	/4 th 210 eldstown nitive undown
	(c) 1/2 th	(d) 1	
(vi)	Splitting of spectral lines when atoms called:	s are :	subjected to strong electric field is
	(a) Zeeman effect (	(b) S	itark effect
	(c) Photoelectric effect	(d) (	Compton effect
(vii)	Quantum number values for 2p orbitals	are:	at it will - Any first the longest of the pro-
	(a) n=2 /=1 (	b) n	= 1 /= 2
	(c) n = 1 / = 0 (	(d) n	= 2 /= 0
(viii)	The paramagnetic behaviour of O2 mole	cules i	is best explained by:
		(b) N	4.O.T.
	(c) four lone pairs on two oxygen atom	ns	
(ix)	(d) VSEPR theory The dipole moment of CHCl <sub>3</sub> is 1.05 D,	while	that of CCl4 is zero Debye, because
	in CCl <sub>4</sub> :		
	<ul><li>(a) bond lengths are unequal</li><li>(b) the structure is planar</li></ul>		
	<ul><li>(c) the structure is perfectly tetrahedra</li></ul>	d	
	(d) every bond is non-polar	0	

	ALC: NOT THE REPORT OF THE
(x)	During an exothermic or endothermic reaction, which one of the following formula is used to calculate the amount of heat evolved or absorbed?
	(a) $\Delta H = \Delta E + P \Delta V$ polynomial (b) $\Delta E = q + W + P \Delta V$
	(c) $Q = m \times S \times \Delta T$ (d) $Q_p = \Delta H$
(xi)	K <sub>p</sub> and K <sub>n</sub> of a gaseous chemical reaction are related as.
1911	$K_p = K_n (P)^{M}$ , it shows that:
	T infraction and a second se
	the Wills adverse spectra then Will go adverte and of adverse start color, 1.0
	I to be a state the antice of constraints for the state of a state
	the second s
	equilibrium stage
(xii)	Which of the following solutions have highest pH: (a) 0.1 M H <sub>2</sub> SO <sub>4</sub> (b) 0.01 M NaOH
	(a) 0.1 M H <sub>2</sub> SO <sub>4</sub> (b) 0.01 M NaOH
	(c) $0.02 \text{ M CH}_1 \text{COONa}$ (d) $0.01 \text{ M Natic O}_1$
(xiii)	In azeotropic mixture showing positive deviation from Raoult's law, the volume
	of the mixture is: 170 amote "01 if ( (b) magnific to mote 2 (c)-
	(a) slightly more than the total volume of the components dolor and dolde to star of F
	(b) slightly less than the total volume of the components
	(c) equal to the total volume of the components
	(d) none of these councern latter work (d) (d) the work of the series of the series of these (c)
(xiv)	The cryoscopic constant of water is 1.86°C. The elevation of B.P. for a 0.1 m solution of a solute in water is:
	(a) 18.6 °C TH (b) 1.86°C TH (c)
	(c) 0.186 °C M (d) sufficient data not given
in A	The oxidation number of carbon in $C_{12}H_{22}O_{11}$ is : TRVIN = 1 (5)
(xv)	
	(a) $0$ could be maintain the boiling points $(d) + (d)^2$ , the external present of (d) (d) $+ 2$
	(c) I be the state of the battery which is mostly used is:
(xvi)	(a) alkaline battery (b) silver oxide battery
	(c) between /oo abd 1583 logs
	The CIV Intermeters to be control of the second second and the second se
(xvii)	
	(a) reacting the reaction of t
	(c) decreasing the activation energy (d) increasing the activation energy

# MODEL PAPER "CHEMISTRY"

Intermediate Part-I Examination

### SUBJECTIVE

#### SECTION-1

#### Time: 2:40 Minutes.

Marks: 68

#### Note: Out of Questions Nos.2,3, and 4 write any 22 (Twenty two) short answers. While writing answer write question No. carefully.

#### Q.No.2. Write short answers.

#### (22x2)=44

- (i) NaCl has 58.5 amu as formula mass and not the molecular mass. Justify it.
- (ii) What is the number of covalent bonds in 8 g of CH<sub>4</sub>?
- (iii) 11 g of carbon is reacted with 32 g of oxygen to give CO<sub>2</sub>. Which is the limiting reactant?

# C+O2 ------ CO2 deapp 3355117 confidence of and

- (iv) How does a Gooch crucible increase the rate of filtration?
- (v) How the decolourization of undesirable colours is carried out for freshly prepared crystalline substances?
- (vi) Calculate the density of CH4 at S.T.P.
- (vii) How do you explain that -273°C is theoretical temperature and is not attainable?
- (viii) Calculate the S.I. unit of general gas constant R.
- (ix) Why the vapour pressure of water, ethyl alcohol and diethyl ether are different from each other at 0°C?
- (x) Why the things can be easily cooked in a pressure cooker?
- (xi) Sodium is a good conductor of electricity but sodium chloride in solid state is not. Give reason?

#### Q.No.3. Write answers to the short questions.

- Justify that the distance gaps between different orbits go on increasing from the lower to the higher orbits.
- (ii) Why the photographic plate is dark and a few bright lines are there in the line emission spectra of a substance?
- According to de-Broglie's idea, only microscopic particles have the waves. Comment upon it.
- (iv) Why the ionization energies decrease down the group although the nuclear charges increase?
- (v) Why second I.P. of an element is always greater than its first I.P?
- (vi) Why NH3 and PH3 give coordinate covalent bonds with H@?
- (vii) How M.O.T. justifies that He atoms cannot make the He2?
- (viii) How do we determine the AH in the laboratory for food, fuel etc.?
- (ix) Specific heat of a substance depends upon the nature of substance. Comment.
- (x) Those gaseous reactions which happen with the increase of volume go to the backward direction, when the volume is decreased. Why?
- (xi) By diluting the solution of CH<sub>3</sub>COOH, the % age ionization changes, but the dissociation constant of the acid remains the same at a constant temperature. How?

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# Q.No.4. Write answers to the short questions,

- (i) The sum of mole fractions of all the components is always equal to unity for any solution. Justify it.
- (ii) Why the relative lowering of vapour pressure is independent of temperature?
- (iii) Why the NaCl and KNO3 are used to lower the melting point of ice?
- (iv) Why a salt like CH<sub>3</sub>COONa produced from a weak acid and a strong base gives a basic aqueous solution?
- (v) How is AI anodized in an electrolytic cell?
- (vi) How can we say that a voltaic cell is reversible cell?
- (vii) How does electrochemical series tell us the distinction between the oxidizing and reducing agents?
- (viii) What are the electrode reactions of dry cell?
- (ix) The reaction rate decreases every moment but the rate constant 'k' of the reaction is a constant quantity, under the given conditions. Justify it.
- (x) Define activation energy and activated complex.
- (xi) The reactions happen due to collisions among the reolecules, but all the collisions are not fruitful. Justify it.

# SECTION-II

Note: Attempt any THREE questions:  $(8 \times 3) = 24$ Q.5 (a) How the mass spectrometer is employed to do the analysis of isotopes of an element. Mention the roles of electric and magnetic fields. (b) A well-known ideal gas is enclosed in a container having volume 500 cm<sup>3</sup> at S.T.P. Its mass comes out to be 0.72g. What is the molar mass of this gas? 3 Q.6 (a) Define and give two examples of each of the properties of crystalline solids: (i) Isomorphism. (ii) Polymorphism. Transition (emperature (iv) Allotropy and an analysis of 2 (iii) (V) Anisotropy (b) What is Born-Haber cycle? How lattice energy of a crystal can be determined by E Sodium is a good productor of electricity burges have a barder to Q.7 (a) Justify various spectral lines for hydrogen atom by using the formula of energy difference of Bohr's model of hydrogen atom. (b) Discuss the structure of ethene (CH<sub>2</sub> = CH<sub>2</sub>) on the basis of sp<sup>2</sup>-hybridization of carbon atoms. Q.8 (a) Give three definitions of 'Raoult's law. Derive the formula of this law when both the components are volatile and give its graphical explanation. 5

- (b) Calculate the pH of a buffer solution in which 0.11 molar CH<sub>3</sub> COONa and 0.09 molar CH<sub>3</sub>COOH solutions are present. pKa for CH<sub>3</sub>COOH is 4.78. 3
- Q.9 (a) Give the rules for the balancing of redox reaction by ion-electron method and balance the following equation by this method.

 $\mathsf{MnO}_{2}^{-1}{}_{(\mathfrak{sq})} + \mathsf{C}_{2}\mathsf{O}_{4}^{-2}{}_{(\mathfrak{sq})} + \mathsf{H}_{2}\mathsf{O} \longrightarrow \mathsf{MnO}_{2(\mathfrak{s})} + \mathsf{CO}_{2(\mathfrak{g})} + \mathsf{OIL}_{(\mathfrak{sq})}$ 

(b) How Arrhenius equation is employed to calculate the energy of activation of a reaction.

# MODEL PAPER "BIOLOGY" Intermediate Part-I Examination

# OP IF CTIVE and aligned and algometics (vz)

	mindo B beatani . II ni f	OBJEC	TIVE	Intesent
Tim	e: 20Minutes			Marks: 17
Q.Ne	You have four cl choice which you number. Use ma circles will result	hoices for each objec think is correct; fil rker or pen to fill the t in zero mark in tha	s on the objective answ tive type question as A. Il the circle in front of t e circles. Cutting or fill t question. Attempt as and leave others blan	, B, C, and D. The hat question ing to or more many question as
(i)	A large regional cor (a) Population	nmunity primarily det (b) Biosphere	ermined by climate. (c) Ecosystem	(d) Biome
(ii)	Substances which o	n hydrolysis yield poly	yhydroxy aldehyde or ke	tone sub-units.
	(a) Acylglycerols	(b) Polypeptides	(c) Carbohydrate	(d) Nucleic acids
(iii)	Tay cache disease re	esults due to accumula	ation in brain cells:	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
()	(a) Mg++ ions	(b) Glucose	(c) Lipids	(d) RNA
(iv)	The infectious prote (a) Viruses	ins are: (b) Viroids	(c) Virions	(d) Prions
(v)	Bacteria require low (a) Aerobic	(b) Anacrobic	gen: (c) Microaerophilic	(d) Facultative
(vi)	The cell wall consist (a) Foraminifera		verlap like a petridish in: (c) Slime molds	(d) Diatoms
(vii)	Carcinogenic mycot (a) Aspergillus	oxins called aflatoxin (b) no italic	s are produced by: (c) Neurospora	(d) Ustilago
(viii)	In Anthoceros sporo there is a band of:	phyte at the junction of	of foot and spore produc	ing region
	(a)Paraphysis (c) Phloem	(b) M (d) 3	Meristematic tissue Kylem	
(ix)	The body cavity of N	Vematoda is called.		
(1x)	(a) Blastocoel	(b) Haemocoel	(c) Spongocoel	(d) Pseudococlom
(x)	Which Fish show me of terrestrial life by	odification of aquatic developing lungs?	breathing system to mee	t the conditions
	(a) Hagfish	(b) Dogfish	(c) Dipnoi	(d) Shark
(xi)	and the second sec		s the membrane drives th	
			s (c) Photosynthesis	
	(a) Kidney	(b) Liver	metabolism is converted (c) Villi	to urea in: (d) Panereas
			thin walled ducts are pr	esent which are
	called: (a) Tracheoles	(b) Bronchioles	(c) Air sacs	(d) Parabronchi

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(xiv)	The pathway involving the plant roots:	system of adjacent of	ell walls which is c	continuous throughout
	(a) Casparian strip	(b) Apoplast	(c) Symplast.	(d) Plasmodesmata
(xv)	Hacmoglobin molecule	in most cases, does	not have B-chain in	it, instead F chain is
	(a) Oedema	(b) Leukemia	(c) Thrombosis	(d) Thalassaemia
(xvi)	The megasporoplylls bea an ovary: (a) Filicineae (c) Dicotyledonae	(b) Mo	nocotyledonse	t the margins to form
(xvii)	Rubisco protein fixes ox	(d) Gyr ygen instead of CO Photorespiration	stongard addi-san	(d) Respiration

# MODEL PAPER "BIOLOGY"

Intermediate Part-J Examination

# SUBJECTIVE

#### Time: 2:40Hours

Marks: 68

(22x2)=44

#### **SECTION-I**

### Note: Out of Questions Nos.2,3, and 4 write any 22 (Twenty two) short answers. While writing answer write question No. carefully.

#### Q.No.2. Write short answers.

- (i) Differentiate between deductive reasoning and inductive reasoning.
- (ii) How is a peptide bond formed? administration trades during our holder is an of
  - (iii) How does enzyme concentration affect the rate of reaction?
- (iv) What are polysomes? A second and the second se
  - (v) Compare microtubules with microfilaments.
    - (vi) What do you know about the capsid of a virus?
  - (vii) Give the importance of plasmids.
    - (viii) What is a hydroponic culture technique?
    - (ix) What is the role of t RNA." a building to point or a set and the set of
    - Give two differences between prokaryotic and eukaryotic cells.
    - (xi) Differentiate between antiseptics and disinfectants.

#### Q.No.3. Write short answers.

- (i) What are the distinguishing characters of kingdom protoctista?
- (ii) List four adaptations of Bryophytes to terrestrial environment.
- (iii) Explain the evolution of megaphyll, endeemand there
- (iv) Give a description of conidia in Penicillium
- (v) Explain polymorphism in coelenterates.
- (vi) Differentiate between polychaeta and oligochaeta.
- (vii) Give four differences between Dicots and Monocots.
- (viii) What is the importance of Archaeopteryx ?
- (ix) Compare an ascus with a basidium.
- (x) Give two differences between gymnosperms and angiosperms.
  - (xi) How have reptiles been able to live on land?

#### Q.No.4. Write short answers.

- (i) What is meant by compensation point?
- (ii) What is the role of gastrin?
- (iii) Compare aerobic and anaerobic respiration.
  - (iv) Differentiate between monocytes and lymphocytes.
  - (v) What is photorespiration?

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- (vi) How is food swallowed by you?
- (vii) Differentiate between single circuit and double circuit heart.
- (viii) What is diving reflex in cetaceans?
- (ix) Why do some plants feed on insects?
- (x) What is meant by preparatory and oxidative phase of glycolysis?
- (xi) Differentiate between apoplastic and symplastic pathway taken by water to

reach the xylem tissue.

# SECTION -II

(8x3)=74

Note: - Att	empt any THREE questions.	ally -
Q.No.5.	the active? Describe four levels of proteins structural org	(2+4+2)
Q.No.6.	Define alternation of generations. Describe the evolution of seed.	(1+7)
Q.No.7.	Narrate the general characters of Arthropods. What is the importance of chitin in their life?	(7+1)
Q.No.8.	Describe light dependent reactions of photosynthesis.	(inv) 8
Q.No.9.	Discuss the evolution of vertebrate heart and the sten of the bar w	(21) 8

# MODEL PAPER "MATHEMATICS" Intermediate Part-I Examination OBJECTIVE

#### Time: 30 Minutes

#### Marks: 20

Q.No.1. Note: Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank.

question as given in objective-type question paper and leave others blank.  
(i) The no 
$$\frac{22}{7}$$
 is called a:  
(a) rational no. (b) irrational no. (c) integer (d) none of these  
(ii) The set  $\{(a,b)\}$  is called:  
(a) infinite set (b) singleton set (c) set with two elements (d) empty set  
(iii) A square matrix A is a skew hermitian if  $(\overline{A})^r$  is equal to:  
(a) A (b) -A (c)  $\overline{A}$  (d)  $A^r$   
(iv) If the matrices A and B are conformable for multiplication, then  $(AB)^r =$   
(a) AB (b)  $BA^r$  (c)  $A^rB^2$  (d)  $B^rA^r$   
(v) If the roots of the quad equation  $ax^2 + bx + c = 0$  are real and equal then  
(a)  $b^2 - 4ac > 0$  (b)  $b^2 - 4ac = 0$  (c)  $b^2 - 4ac < 0$  (d) none of these  
(vi) The product of the four fourth roots of unity is:  
(a)  $0$  (b) 1 (c) -1 (d) i  
(vii) Partial fraction of  $\frac{1}{(x+1)(x^2-1)}$  will be of the form:  
(a)  $\frac{A}{x+1} + \frac{Bx+c}{x^2-1}$  (b)  $\frac{A}{x+1} + \frac{B}{x^2-1}$   
(c)  $\frac{A}{x-1} + \frac{B}{x+1} + \frac{C}{(x+1)^2}$  (d) none of these  
(viii) Arithmetic mean between 2a and 2b is:  
(a)  $\frac{a+b}{2}$  (b)  $a+b$  (c)  $\frac{2ab}{a+b}$  (d) none of these  
(ix) The sum of an infinite geometric series exists iff  
(a)  $|r| < 1$  (b)  $|r| > 1$  (c)  $x = 1$  (d)  $r = -1$ 

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	n		oitkn			aboarith		
(x)			al to:				EBERT 4-	stinty for any
	k					Bull plan state	1	Times 30 Mills
	(a)	$\frac{n(n+1)}{2}$	11.CO		(b)	$\frac{n^2(n+1)^2}{4}$	- Hite A	Horge St.
	(c)	$\frac{n(n+1)(2}{6}$	<u>n + 1)</u>	idaalida datea is contract, fil is contract, fil	(d) 1	none of these	do sar	Alivarig Al-bas olicarig
(xi	) If A	and B are disjo	oint eve	nts then $P(A)$	JB) =	abyli thisest iti	in the set	Bracine And
	(a)	P(A) + P(A)	B)		(b)	P(A) - P(A)		
	(c)	P(A) - P(A)	B) - P(	$A \cap B$	(d)	none of the	se	ALMER
(xii	i) If "	$C_8 = {}^{n} C_{12}$ , the	n n=	= (0)		i jili od i		in Manual Provident
	(a)	4	(b)	. 8	(c)	20	(d)	- 12
(xii		expansion of (		The second second second		A TAN STREET		aller A faile
	(a)	$ x  < \frac{1}{2}$	(b)	x  < 1	(c)	x  < 2	(d)	none of these
(xiv	v) In or	ne hour, the hou	ır hand	of a clock turn	s throug	h: WE base	- bitting	560 110 (907
	(a)	$\frac{\pi}{8}$ radians	(b)	$\frac{\pi}{4}$ radians	(c)	$\frac{\pi}{6}$ radians	(d)	$\frac{\pi}{2}$ radians
(xv)	) sin(	20) =	LESIDE De Vo			india opup oci		ronum
	(3)	$\frac{2\tan\theta}{1-\tan^2\theta}$	(b)	$\frac{2\tan\theta}{1+\tan^2\theta}$	(c)	$\frac{1 - \tan^2 \theta}{1 + \tan^2 \theta}$	(d)	$\frac{1+\tan^2\theta}{1-\tan^2\theta}$
(xvi	) Perio	od of $\sin \frac{x}{2}$ is:						
		niska stanist In musika stanisti			4-	x)(1+x)		
	(a)	π	(b)	3π. ``	(c)	$\frac{2\pi}{3}$	(d)	6π
(xvi	i) If A	ABC is right an	gle triar	ngle, then the l	aw of co	sines reduces	to:	
	(a)	The law of si	nes		(b)	The law of t	angents	
1. A.	(c)	The pythagor	us theo	rem	(d)	none of these	ani in	
(xvii	ii) Radii	us of escribed	circle oj	pposite to the v	vertex A	is:		
urese.	(a)	$\frac{\Delta^{(b)}}{a}$	(b)	$\frac{\Delta}{b}$	(c)	$\frac{\Delta}{s-a}$	(d)	none of these
(xix)	) The d	lomain of the pr	incipal	tan function is				
	(a)	$\left[\frac{-\pi}{2},\frac{\pi}{2}\right]$	(Ъ)	(0 <i>,</i> π)	(c)	(1) R	(d)	nocn of these
. (xx)	The s	olution of the e	quation	$\tan x = -\frac{1}{\sqrt{3}}$	is in:		Maria	
	(a)	I and II quadr	ants	· · · ·	(b) .	I and III quad	lrants	and the second
	(c)	II and IV qua	drants		(d)	none of these		

(1)45、多生活、水生活等於使必须、水水水水水、水生、水生、水

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#### **MODEL PAPER "MATHEMATICS"** Intermediate Part-I Examination

#### SUBJECTIVE SECTION-I

Time: 2:30Hours

Marks: 80

- Note: Out of Questions Nos.2,3, and 4 write any 25 (Twenty five) short answers. While writing answer write question No. carefully.
  - Q.No.2. Write short answers.
  - Find multiplicative inverse of (-4, 7) (i)
  - (ii) Define a complex number.
  - (iiii) Define a semi-group
  - Show that the statement  $(p \land q) \rightarrow p$  is a tautology: (iv)
  - Show B A by Venn diagram when A and B are overlapping Sets?
  - [1 2 0] (vi) -1 3 2
    - if  $A = \begin{vmatrix} 3 & 2 & -1 \end{vmatrix}$  show that  $A + A^t$  is symmetric.

(vii) Without expansion verify that 
$$\begin{vmatrix} \alpha & \beta + \gamma & 1 \\ \beta & \gamma + \alpha & 1 \\ \gamma & \alpha + \beta & 1 \end{vmatrix} = 0.$$

- (viii) Define the rank of a matrix.
- (ix) Define a polynomial function and degree of polynomial.
- Show that  $1 + w^{37} + w^{36} = 0$ (x)
- When polynomial  $x^3 + 2x^2 + 1 \times 4$  is divided by x 2, the remainder is 14. Find the (xi) value of k.
- (xii) If  $\alpha$ ,  $\beta$  are the roots of  $5x^3 x 2 = 0$ , form an equation whose roots are  $\frac{3}{2}$

Q.No.3. Write short answers.

- Resolve  $\frac{2}{r^2-1}$  into partial fractions. (i)
- (ii) What is a proper rational fraction?
- (iiii) Which term of the A.P. 5,2-1,.....is-85
- If  $\frac{1}{a}$ ,  $\frac{1}{b}$ ,  $\frac{1}{c}$  are in G.P. show that common ratio is  $\frac{1}{c}$ (iv)
- If  $a_{n-3} = 2n 5$ , find the nth term of the sequence. (v)
- How many terms of the series  $-9 6 3 + 0 + \dots$  amount to 66. (vi)
- If 5 is the H.M. between 2 and b then find b. (vii)
- Find the number of diagonals of a six sided figure. (viii)
- (ix) How many arrangements of the letters of the word PAKPATTAN taken all at time can be made.
- A ball contains 40 balls out of which 5 are green, 15 are black and the remaining are (x) yellow. A ball is taken out of the bag. Find the probability that the ball is yellow.
- (xi) State principle of mathematical induction.
- (xii) Expand  $(1+2x)^{-1}$  up to 3 terms.

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Q.No.4. Write short answers.

- (i) Define an angle.
- (ii) Prove that I = rQ

(iii) Define a radian.

(iv) Prove that  $\csc \theta + \tan \theta \sec \theta = \csc \theta + \sec^2 \theta$ .

(v) Prove that 
$$\frac{\cos 11^{\circ} + \sin 11^{\circ}}{\cos 11^{\circ} - \sin 11^{\circ}} = \tan(56^{\circ})$$

(vi) Express sin  $7x + \sin 5x$  as a product.

- (vii) Draw the graph of  $y = \cos x$  from  $-90^{\circ}$  to  $90^{\circ}$
- (viii) What do you mean by the solution of a triangle?
- (ix) State any two laws of cosines in a triangle.
- (x) Prove that  $r = \frac{\Delta}{S-a}$ .

(b)

Prove that Sin-1

(xi) Find the area of a triangle ABC in which b=21.6cm, c=30.2m, and  $\alpha = 52^{\circ}40^{\circ}$ 

SECTION CHICK IN MALE

(xii) Prove that 
$$\tan^{-1}\frac{1}{4} + \tan^{-1}\frac{1}{5} = \tan^{-1}\left(\frac{9}{19}\right)$$

(xiii) Find the solution set of the equation  $\sin x = \frac{1}{2}$ 

#### SECTION -- II

12.1

of

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

Q.No.5.	(a)	If a, b are elements of a group G then show that $(ab)^{-1} = b^{-1}a^{-1}$
		a+l a a
	(b)	Show that $\begin{vmatrix} a & a+l & a \\ a & a & a+l \end{vmatrix} = l^2 (3a+l)$
Q.No.6.	(a)	Prove that $\frac{x^2}{a^2} + \frac{(mx+c)^2}{b^2} = 1$ has equal roots, if
		$c^2 = a^2 m^2 + b^2, a \neq 0, b \neq 0$
	(b)	Find n'so that $\frac{a^{n+1} + b^{n+1}}{a^n + b^n}$ may be H.M. between a and b.
Q.No.7.	(a)	Prove that ${}^{n-1}C_r + {}^{n-1}C_{r-1} = {}^nC_r$
	(b)	Use mathematical induction to prove that $x + y$ is a factor $x^{2n-1} + y^{2n-1}(x \neq -y)$
40 -	, ba	- 10-10-10-10-10-10-10-10-10-10-10-10-10-1
Q.No.8.	(a)	Find the values of the trigonometric functions of the angle $\frac{235}{2}\pi$ .
States and the	(b)	Prove that $\cos 20^{\circ}$ , $\cos 40^{\circ}$ , $\cos 60^{\circ}$ , $\cos 80^{\circ} = \frac{1}{16}$
Q.No.9.	(a)	Define inscribed circle and prove that $r = \frac{\Delta}{S}$

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- sin<sup>-1</sup>

= COS

#### **MODEL PAPER "STATISTICS" Intermediate Part-I Examination OBJECTIVE** Time: 20Minutes Marks: 17 Q.No.1. Note: Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank. If 'a' is a constant, then > a equals: (i) (c) 5a (d) a+5 (a) $a_1 + a_2 + a_3 + a_4 + a_5$ (b) as (ii) Statistics are: (a) Aggregate of facts and figures (b) Always true (d) Always qualitative (c) Always continuous (iiii) A graph of a cumulative frequency distribution is called: (a) Frequency curve (b) Frequency polygon (c) Ogive (d) Histogram. (iv) Census returns are : (b) Secondary data (a) Primary data (d) True data. (c) Qualitative data The harmonic mean of two numbers 'a and b' is : (v) (b) ab (c) 2ab (d) a+b (a) 2 a+b a+b a+b ab (vi) The sum of deviations taken from A.M.is: (b) <sup>∑</sup>f (c) n (a) l (d) zero If left tail is longer than the right tail, then distribution is called: (vii) (a) Negatively skewed (b) Positively skewed (c) Symmetrical (d) None (d) None The first moment about mean is equal to: (viii) (d) Standard deviation (a) Variance (b) Zero (c) Mean If all items are given equal weights, the index Number is called: (ix) (a) Weighted (b) Un-weighted (c) Simple (d) None An index number is called composite index when it is computed from: (x) (a) Simple variable (b) Bi-variable (d) None of them (c) Multiple variable The number of permutations of 'r' objects taken out of total 'n' objects is: (xi) (a) "cr $(d)^{N}c_{n}$ (c) ${}^{n}C_{x}$ (b) "pr The probability of sure event is: (xii) (b) Negative (a) Zero (c) One (d) None Two events A and B are called mutually exclusive if: (xiii) (a) $P(AuB) = \phi$ (b) $P(AB) = \phi$ (c) $P(A \cap B) = S$ (d) P(A∩B)=1

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(xiv)	A set of numerical va (a) Random variable (c) Random numbers	lues assigned to	<ul><li>36-</li><li>a sample space is called:</li><li>b) Random sample</li><li>d) Random experiment</li></ul>	<u>0M</u>
(xv)	Var (4x+8) is: (a) 12 Var (X)	(b) 4 Var (X)+8	(c) 16 Var (X)	(d) 16 Var (X)+8
(xvi)	The binomial distribution (a) $p < \frac{1}{2}$	(b) $p = \frac{1}{2}$	y skewed if: (c) $p > \frac{1}{2}$	(d) p=1
(xvii)	The mean of the hype (a) $\frac{nk}{N}$	r-geometric distr (b) Nk T	ibution is: (c) <u>Nn</u> k	(d) $\frac{n+k}{N}$

# MODEL PAPER "STATISTICS"

Intermediate Part-I Examination

#### SUBJECTIVE

Time: 2:40Hours

Marks: 68

#### **SECTION-I**

Note: Out of Questions Nos.2,3, and 4 write any 22 (Twenty two) short answers. While writing answer write question No. carefully. O.No.2. Write short answers. (22x2)=44

- (i) Define Statistics.
- (ii) Differentiate between variable and constant.
- (iii) Distinguish between Primary and Secondary data.
- (iv) Define class limit and class boundary
- (v) Define classification.
- (vi) Define tabulation.
- (vii) Write down the important points to prepare a good table.
- (viii) In a moderately asymmetrical distribution the value of median is 53 and the value of mode is 50. Determine the mean.
- (ix) The mean of n value is 8. If a new value 28 is included, the mean becomes 9, find the value of n.
- (x) What is meant by measures of central tendency?
- (xi) Write the qualities of a good average.

#### **O.No.3.** Write short answers.

- The first four moments about the A.M. of a distribution are 0.4.7 and 48. Find b<sub>2</sub>.
- (ii) Explain the moments about mean.
- (iii) Write mathematical properties of S.D.
- (iv) Distinguish between simple and composite index numbers.
- (v) Explain the meaning of consumer price index number.
- (vi) Given W= 20,25,30,40 and I=  $\frac{Pn}{Po}$  x100 = 100,105,110,120. Find consumer price index number.
- (vii) Given the following information:  $\sum p_n q_0 = 4220$ ,  $\sum p_0 q_0 = 3520$ .
  - $\sum p_n q_n = 4810$  and  $\sum p_n q_n = 4020$ . Find Marshal- Edge worth index.
- (viii) Differentiate between absolute and relative dispersion.
- (ix) Define Mean deviation.
- (x) What are weighted Index numbers.
- (xi) What are properties of variance.

#### Q.No.4. Write short answers.

- (i) Write the statement for addition law of probability for any 2 events.
- (i) Prove addition law for mutually exclusive events.
- (ii) Define a random variable.
- (iii) If P (A) = 0.7, P (B)= 0.5 and P (B/A) = 0.5, find P(A(B)).
- (iv) If 3 coins are tossed, what is the probability of getting at most two heads?
- (v) Given E(X+4)=10 and E(X+4)<sup>2</sup> = 116, determine Var (X).
- (vi) Write properties of mathematical expectation.
- (vii) Write formulas of mean and variance of the binomial distribution.
- (viii) Write the properties of binomial experiment.
- (ix) Define Hyper geometric distribution.
- In a binomial distribution, the mean is 3 and standard deviation is 1.5, find its parameters.
- (xi) Define classification.

AJK Board of Intermediate & Secondary Education, Mirpur www.ajkbise.net (HSSC PART-I Model Papers) Page 33 of 46 Note: - Attempt any THREE questions.

(8x3)=24

Q.No.5.

(a) Draw an ogive for the following data

Groups	10-19	20-29	30-39	40-49	50-59	60-69
No of Boys	15	20	25	30	15	10

(b) The frequency distribution given below has been derived from the use of working origin. If D=X-18, find Λ.M. and H.M.

D	-12	-8	+4	0	4 4 4	8	12	
F-13	2	5	8	18	22	13 13	8	

Q.No.6.

- (a) A variable Y is obtained from a variable X by the equation Y=2X+5. Determine the Y values when the X value are 3.6,2,1,7,5, verify that Vax (Y) = 4Vax (X)
- (b) The first four moments about X=20 of a distribution are -2,38, -104 and 3088. find out whether the distribution is leptokurtic, meso kurtic or platy kurtic.

Q.No.7.

(a) Construct the chain indices for the following data for price relatives for 1941 to 1944

Year	Sugar	Gur	Tea
1941	98	75	82
1942	100	82	74
1943	114	83	78 001 001 001
1944	109	84 10 200000	89

(b) Give the following information:

 $\sum p_0 q_0 = 3600$ ,  $\sum p_1 q_0 = 4300$ ,  $\sum p_0 q_1 = 4100$  and  $\sum p_1 q_1 = 4890$ . Show That Fishers ideal price index number is the G.M. of Laspyres and Pasche's price index numbers.

Q.No.8.

- (a) A bag contains 7 white, 5 black and 4 red balls. If two balls are drawn at random, find the probability that:
- (i) both balls are white (b) A function is given by  $f(x) = \frac{3+2x}{18}$ ,  $2 \le x \le 4$ . show that it is probability

density function and find the Probability

That (i) x≥ 2.5 (ii) x < 3.5

Q.No.9.

- (a) Find the mean and S.D. of the binomial (q+p)<sup>3</sup>
- (b) Five balls are drawn from a box containing 4 white and 7 black balls. If X denotes the number of black balls drawn from the box, then obtain the probability distribution of X. Find the mean and variance of this distribution.

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# MODEL PAPER "COMPUTER SCIENCE" Intermediate Part-1 Examination

# OBJECTIVE

	OBJECTIVE
10	me: 20Minutes
0.0	Marks: 15 No.1.Note: Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in thet origin.
	circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank.
100	i) Which function key is used for checking spellings and grammar in Excel? (a) F1 (b) F2 (c) F7 (d) F12
60	ii) Digitizing/Graphic table is a/an device. (a) Output device (b) Scanning Device (c) Pointing Device (d) None of these
(i	ii) EL stand for
	(a) Electrical Luminescent Display (c) Electro-Luminescent Display (d) None of these
(i)	1) 1 Terabyte equals to bytes.
	(a) 1024 (b) 1024 a 1024 a 1024
	(c) 1024 * 1024 * 1024 * 1024 (d) None of these
(v)	
	Each location in primary storage is assigned a unique (a) Data (b) Fields (c) Norm
	(a) Data (b) Fields (c) Name (d) Address
(vi)	keeps track of the province day
	(P) Proteins destant
	(c) Data register (d) Accumulator register
(vii)	Information travels between components of a computer through groups of wires
	(a) Cards (b) Busses (c) Slots (d) Ports
(viii)	
HI) N	(d) All of these
(ix)	A digital computer system consists of a Central Processing Unit (CPU) interfaced with
1	(a) Input devices (b) Auxiliary storage (c) Output devices (d) All of these
(x)	What layer of the OSI Model does data compression
	(a) Network (b) Data Link (c) Presentation (d) All of these
(xi)	Which of the following access methods listens to the cable for network traffic before sending data?
	(a) Token passing (b) Polling (c) CSMA/CA (d) CSMA/CD
(xii)	In a networking environment, a network adaptor and discussion in the
	(o) communication between the file service and the
	<ul> <li>(c) Communication between the adapter card and the other computer on the network</li> <li>(d) Communication between different types of computers on a network</li> </ul>
	and an anti-anti-anti-anti-anti-appes of con-paters on a network

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(xiii)	<ul><li>(a) Needs signi</li><li>(b) Breaks in a</li></ul>	blowing statement bes ficantly less cabling the single cable segment to ult to reconfigure than	an other topolo akes down entit	gies re network
		monitoring and manag		*
(xiv)	A program that destructive act,		and at the same	e time carries out some secret
	(a) Sabotage	(b) Trojan horse	(c) Worm	(d) Logic bomb
(xv)	The most comm computer is	ion protocol used for u	ploading and d	ownloading files between
	(a) TCP/IP	(b) NNTP	(c) FTP	(d) Telnet

#### MODEL PAPER "COMPUTER SCIENCE" Intermediate Part-I Examination

#### SUBJECTIVE

Time: 2:10Hours

Marks: 60

#### **SECTION -I**

Note: Out of Questions Nos.2,3, and 4 write any 18(Eighteen) short answers. While writing answer write question No. carefully.

#### Q.No.2. Write short answers.

(i) What is Information and Technology? How has it made our world a global village?

(18x2)=36

- (ii) What is computer?
- (iii) Differentiate between hardware and software. Also give examples.
- (iv) Differentiate between De Fatco and De Jure.
- (v) Explain workgroup computing.
- (vi) Is BUS topology easy to install and extend? Prove your claim with valid arguments.
- (vii) What is data communication? Name its three modes.
- (viii) Differentiate between guided and unguided media.
- (ix) What is Modem? What are its different types?

#### Q.No.3. Write short answers.

- Write down the three uses of computers in various fields.
- (ii) What is computer simulation? Explain.
- (iii) What is RAM? What are its different types?
- (iv) Briefly describe bus interconnection.
- (v) What is function of General Purpose Registers?
- (vi) Explain different steps involved in Instruction Excute Cycle.
- (vii) Differentiate between interpreter and compiler.
- (viii) Describe boot sector virus.
- (ix) Write down two causes of computer virus.

#### Q.No.4. Write short answers.

- (i) Differentiate between multitasking and multiprocessing.
- (ii) What is a word processor?
- (iii) What is the difference between copy and cut?
- (iv) What are the two modes of typing?
- (v) How a document is printed in MS Word?
- (vi) What is a spreadsheet program?

1.1.4.4	and a state of the		Contraction (1)		
dares.	) What is meant	PAUL CONTRACT	reterence/		
I VII	I WHAT IS INCAM	DY CCU	TOTOTOTOTO .		

- (vii) What are functions? Write the function to find average of cells between B I and B10.
- (viii) What is Web browsing? Write two limitations of email.

# SECTION -II

Note: - Attempt any THREE questions.	8x3=24
Q.No5. Describe the OSI Model with special emphasis on the layers of OSI Mode	21. 8
Q.No6. What is data coding? Describe different data coding schemes	8
Q.No7. What is a system? Illustrate briefly System Development Life Cycle.	8
Q.No8. What is data communication? Define the basic component of communication network.	Sound <sup>8</sup> (vi Fiduci 1 octo
Q.No9. Explain the architecture of computer system.	1000 B (in

# MODEL PAPER "ECONOMICS"

Intermediate Part-I Examination

OBJECTIVE

**Time: 30Minutes** 

Marks: 20

O.No.1. Note: Write answers to the questions on the objective answer sheet provided. You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct; fill the circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling to or more circles will result in zero mark in that question. Attempt as many question as given in objective-type question paper and leave others blank. Who is known / called as the founder of Economics? (i) (a) Recardo (b) J.S. Mill (c) Robbins (d) Adam Smith When the total utility of a commodity is maximum the marginal utility is (ii) (a) Negative (b) Zero (c) Positive (d) Maximum The Elasticity of demand of durable goods is: (iii) (a) Less then unity (b) Greater than unity (c) Equal to unity (d) Zero The Elasticity of Demand of substitutes is: (iv) (a) More Elastic (b) Less Elastic (c) Zero Elastic (d) Infinite Elastic When the supply of a commodity increases without change in price it is called: (v) (a) Fall in supply (b) Expansion in supply (d) Rise in supply (c) Contraction in supply Due to the Equal decrease in Demand & Supply the price: (vi) (d) None of these (c) In the same (b) Decreases (a) Increases Reward of which factor of production is not pre-determined? (vii) (b) Land (c) Entrepreneur (d) Capital (a) Labour (viii) The Law of increasing return is also called as the Law of: (a) Increasing Costs (b) Decreasing Costs (c) Equal Costs (d) None of these (ix) In general the Law of Diminishing return applies to: (c) Agriculture (d) None of these (b) Industry (a) Trade The increase in total cost due to the production of an extra unit is known as: (x) (a) Average Cost (b) Variable Cost (c) Marginal Cost (d) Fixed Cost The demand curve for Monopolist is also called as: (xi) (a) Total Revenue (b) Average Revenue (c) Marginal Revenue (d) None of these Kinds of Market according to time-period are (xii) (c) 04 (a) 02 (b) 03 (d) 06 (xiii) The concept of Quasi-Rent was introduced by: (d) Malthus (a) Marshall (b) Ricardo (c) Keynes (xiv) Under Marginal Productivity Theory the reward for labour is determined by: (a) Owner (b) Government (c) Labour (d) Marginal Product.

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(xv)	The rent on Marg	inal-Land is:	Totabourcotal	
	(a) Maximum	(b) Minimum	(c) Zero	(d) None of these
(xvi)	With decrease in	rate of Interest, the price	e of Bonds:	
	(a) Decreases	(b) Increases	(c) Does not change	(d) None of these
(xvii)	How many stages	are there in the Law of	f Variable-Proportions?	
	(a) 02	(b) 03	(c) 04	(d) 05
(xviii)	The geographical	mobility is not possible	W1	
	(a) Labour	(b) Capital	(c) Land	(d) Organization
(xix)	When marginal re	venue is zero, total rev	enue is:	
	(a) Minimum	(b) Maximum	(c) Zero	(d) Decreasing
(xx)	Which organizatio	on can sell the shares in	the open market?	
	(a) Partnership		Pvt Ltd Company	
	(c) Public Limited	(d)	Co-op-Society	

### MODEL PAPER "ECONOMICS" **Intermediate Part-I Examination**

#### SUBJECTIVE

Time: 2:30Hours

#### Marks: 80

#### SECTION -L

Note: Out of Questions Nos.2,3, and 4 write any 25(Twenty five) short answers. While writing answer write question No. carefully.

#### Q.No.2. Write short answers. (25x2)=50

- What is Ecnonmic problem? (i)
- Define Normative Science. (ii)
- What is Micro Economic? (iii)
- (iv) What is consumption?
- What is Negative utility? (v)
- Define indifference curve. (vi)
- What is classification? (vii)
- What is the difference between Equation and Identical Equation? (viii)
- Define parameters. (ix)
- What is meant by change in demaond? (x)
- Define cross Elasticity of demand. (xi)
- Why the more Elastic commodities are not taxed? (xii)

#### O.No.3. Write short answers.

- Differentiate between supply and stock ... (i)
- What is "zero clasticity of supply". (ii)
- Define Law of supply. (iii)
- (iv) What is equilibrium price?
- What is meant by change in equilibrium? (v)
- Define perishable commodities. (vi)
- Define production function. (vii)
- What is bargaining power of labor? (viii)
- What is meant by the mobility of capital? (ix)
- Define scale of production. (x)
- What is meant "by Product"? (xi)
- What is the relationship between Law of return with laws of costs? (xii)

#### Q.No.4. Write short answers.

- Define short run costs. (i)
- What is the relationship between Average and Marginal cost. (ii)
- What is the difference between short runperiod and long runperiod? (iiii)

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(iv) Descri	e the characteristics of	perfect competion.
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- (v) What is meant by the equilibrium of a firm?
- (vi) What is the relationship between average revenue and marginal under revenue Monoply?
- (vii) What is meant by market?
  - (viii) Define local Market?
  - (ix) Describe the essentials of a market.
  - (x) What is meant by "marginal land"?
  - (xi) What is zero rate of interest?
  - (xii) What is meant by the marginal revenue product?

#### **SECTION-II**

#### (10x3)=30Note: - Attempt any THREE questions. Q.No5. Critically evaluate the definition of Economics given by Alfred Marshall. 10 10 Analyses the characteristics of indifference curves, O.No6. 10 Q.No7. Solve the Equations given below: ν, (ii) 2(x+5) = 2(x-2)(i) 8x + 2 = 18Q.No8. Describe the practical importance of elasticity of demand. 10 Q.No9. Compare and contrast the Equilibrium of a firm under perfect 10 competition and monopoly

	el el ciencie	5533 P	نام تبادلكان كالمعور كس في	(xiii)
(د) کالتحس	*(3)		(الف) ارش	
		فظريفتم يدادارول كمطابق حردور كمعادف كالمحن كرتاب		
(د) محمم عدادار	(3) year		(القر)مالک	
			ציקנייןשטאדו-	
(5) كون مح الل	(5)4		(الف)زياده من الده	
		- تي الم	the inforce	(xvi)
(د)كى بى يى	(3) " the the	ج بالجه على (ب)	(الف) كم بوجاتى ب	10-7
		(xvii) قانون حفيرتابات كمراهل بوت ي-		
št ()	(ج) پر ۱۹	(ب) ځن	(الف)وو	
(I) · watting		1	) جغرافیالی در کت پذیری مکن	xviii)
(د) عظیم	(ج)رځن	ول (ب) مراج ا	(الف)محنت	
100 年18230			تنتم وصولى مفربوتوكل وصو	
(נ)אמניטמט ב	(3)مز	(ب) زياده عذياده		
All and Particular	Alt mananing is	مازار شرفروفت كرعق ب-		
(e) الجمن الماديا جمى	(3) بالمحاجزة	(ب) پانچمناموند کمن	(الف) شراكت	

ماڈل پیپر"معاشیات" ...] برائ انثرميد يفاستحان بارث-ا Hall Anne and the ? (حانثاتي) 80: 25 وتت:2:30 كم نوٹ۔ سوال نمبر 2، 3، اور 4 ش ے کوئی ے 25 ( بی ) محقر سوالات کے جوابات تر یکری جواب تر یکر تے وقت سوال کا יק א א אין حصراول 25x2=50 سوال نمبر 2- مخصرسوالات کے جوابات تجریر کریں-موافى متله يحكام او ب؟ (i) علم الهدائت كي تحريف بيان كى عجي ؟ (ii) جروى معاشيات يكامراد ب (iiii) مرف دولت ے کیامراد ہے ؟ (iv) متى اقادو يكامراد ب؟ (v) المامد بر في كالريف يج-(vi) يماعت بندى ےكيامراد ب (vii) مادات اور مماثله ش كيافرق ب؟ (viii) المائتى ساكنات التداميروك تحريف يجت (ix) - Winter Condet Color طب ش تد يلى ي كيامراد --(x) متعاطع فك كالحريف بيان يجت -(xi) زياده فكداراشياء يركس كون في الكاياجاتا-(xii) سوال تمر 3- مخفرسوالات کے جوامات تر رکر س-ومدادرد فروش فرق بان يج-(i) رمدكمغر فك عكامرادب ؟ (ii) قانون رسد كي تعريف بيان يج -(iiii) توازنى تمت بامراد ي (iv) توازن ش تيريل ي كيامراد ب (v) ضاع ذياشاه كآخريف بان يج-(vi) القاعلى يدائش كي تحريف بيان يجت -(vii) محت كية ت مودارى بامراد ب؟ (viii) مرما برك وكت يذيرك كإمراد ب (ix) بانديداش كالمريف بيان كيج-(x) محتى يدادار يكامراد (xi) قوانین حاصل کاقوانین معارف کے ساتھ کی تعلق ے ؟ (xii)

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سوال تمر 4- مخفرسوالات کے جوایات تر بر کر ب مرصقيل كمعمارف يكامراد ب (i) اوسطاور تختم مصارف من كي تعلق ب ؟ (ii) مرمدقيل اورم مطويل شرق مان يجت-(iiii) كمل مقابله كى تصوصيات بيان كري-(iv) فرم كاوادن يكامراد ب (v) اجاره داری کے تحت اوسط دصولی اور تختم وصولی کے درمیان ک (vi) متذى كامغيوم بانكري-(vii) مقامى منذى كي تعريف بمان يحت-(viii) منذى كاوازمات بان يجت-(ix) فتتم زعن بي كامراد ب (x) シュシアレーショーショー (xi) محتم يداداركى الت بيامراد (xii) حمردوم نوٹ: مندرجدویل میں سے صرف تمن سوالات کے جوایات تر رکریں۔ 30=10x3 موال نمبر 5-مارشل كى بيان كرده معاشيات كى تعريف كالتقيدى جائزه چيش كري-10 موال تمبر 6- خطوط عدم رفي كاخصوصات كالجوير يجت-10 سوال فير 7- درج ذيل مساداتون كول كري-10 (ii) 2(X+5)= 2(X-2) (i) 8X+2 =18 موال نمبر8\_طلب كى يك كى عملى ابحيت بمان كري-10 سوال نبر 9- عمل مقابله اوراجاره داري في تحت فرم ي توازن كامواز مذكري-10

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