Syllabus Question Papers Results and Many more...

B.E./B.Tech. DEGREE EXAMINATIONS, JANUARY 2022.  First Semester  HS 3151 — PROFESSIONAL ENGLISH — I  (Common to : All Branches (Except : Marine Engineering))  (Regulations 2021)  Time : Three hours  Answer ALL questions.  PART A — (10 × 2 = 20 marks)  1. Choose the correct word that can substitute the highlighted phrases in the following sentences.  (4 × ½ = 2)  (a) Though Abopfu was a person who did not know to read and write sile runs very successful lower ousiness  (i) Megible  (ii) Illiterate  (iii) Illiberal  (iv) Illegal  (b) There were numerous clubs in college, notable among them was the coin collection club.  (i) Numismatics  (ii) Pneumatics  (iii) Philanthropy  (iv) Mathematics  (c) Since the family had very strict food habits, they always packed a kitchen set that could easily be carried everywhere.  (i) Creditable  (ii) Potable		Question Paper Code: 41518
(Common to: All Branches (Except: Marine Engineering))  (Regulations 2021)  Time: Three hours  Maximum: 100 marks  Answer ALL questions.  PART A—(10 × 2 = 20 marks)  1. Choose the correct word that can substitute the highlighted phrases in the following sentences.  (4 × ½ = 2)  (a) Though Roopini was a person who did no know to read and write she rank very successful flower business  (i) Hegible  (ii) Illiterate  (iii) Illiberal  (iv) Illegal  (b) There were numerous clubs in college, notable among them was the coin collection club.  (i) Numismatics  (ii) Pneumatics  (iii) Philanthropy  (iv) Mathematics  (c) Since the family had very strict food habits, they always packed a kitchen set that could easily be carried everywhere.  (i) Creditable		B.E./B.Tech. DEGREE EXAMINATIONS, JANUARY 2022.
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(ii) Potable	(4	set that could easily be carried everywhere.
		(ii) Potable
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(iv) Portable	,	(iii) Notable

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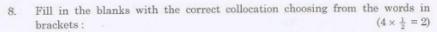
	6.80	(TI)	ads are well buil	t with wide fee	tnaths on	oither side for	those
	(d)	The roa	who go to diffe	rent places by	walk.	itilet side ioi	enose.
		Marie Salara	dustrialist				
		(ii) E	questrians				
		(iii) Pe	edestrians				
		(iv) To	ravellers				
2.	brac	kets:	blanks with the			(4 ×	$\frac{1}{2} = 2$
	appl	icants w	orochure that is be ho are present — (provide) info	rmation about t	he college,	irful and att the programn	ractive. nes and
	of the	ses offer ne applic lication	ed and the campu ants forming a lin forms and broch ugh the brochure	is. Right now we ne in front of the ture. The appli	e informati	— (show) you on desk to reco	ımages
3.	Fill	in the bl	anks with the cor m the two options	rect form of the	verb that ag	grees with the	subject, $(\frac{1}{2} = 2)$
	(a)	The po	lice were very sur	e that one of the s) the culprit.	men prese	nt in the room	
	(b)	Neithe	r her brother nor	her parents		(know/knows)	about
<b>//</b>	(0)	One of the roo	or grades in schoo the best things at oms.	bout this hotel –	IS	(is/are) the vi	
	(d)		nallest words in the st of emotions.	he language ——		(convey/convey	rs) the
4.	Fill	in the b	lanks in the following from the option	wing sentences v	vith the mo	st appropriate (4	phrasal $\times \frac{1}{2} = 2$ )
	(a)	He fou	and it very difficul	t to —	his classn	ates in college	
	-77.35		Getup				
		(ii) (	Get off				
		(iii) (	Get away to				
		(iv) (	Get along with				
	(b)	The in	vestigators are —	the '	link betwee	n the two incid	ients.
		(i) ]	Looking up				
		(ii) 1	Looking into				
		(iii)	Looking at				
-		(iv)	Looking away				
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				-			

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		200	The candidate - conditions unacc		- the offe	r as she	found the	terms and	
			(i) Turned dow	A STATE OF THE PARTY OF THE PAR					
			(ii) Turned up						
			(iii) Turned awa	av					
			(iv) Turned in						
			The researcher -		the new s	necies of fr	og quite by	accident	
			(i) Came by		and more o	protect on an	on dates of	accinosio	
			(ii) Came along						
			(iii) Came acros						
			(iv) Came in						
	5.		e any two of the f	ollowing .				$(2 \times 1 = 2)$	
	o.		Robot	onowing.				(2 1 - 2)	
			Camera						
			Mariner's compa	0.0					
			Satellite	55					
	6.		se the correct wo	rd from the	ontions di	ivon and fil	l the blank	e to form a	
	0.		ound word with t						
		(a) '	The soldiers were all by itself with	surprised to no visible —	o see the ta	ank advanc - system ir	e on <b>enem</b> y place.		
V	V	V	(i) Terror, Con (ii) Territory, Con (iii) Tunnel, Cen (iv) Territory, Con	Control atrol	IN		3.0	CO	m
		(b) '	The teams that platform to carr	took part in			prebuilt -		
			(i) Hardware,						
			(ii) Software, e						
			(iii) Hardware,		ition				
			(iv) Software, e:						
	7.		n the blanks wit	7	opriate rel	ative prono	oun choosin	g from the	
			is provided in bra			1		$(4 \times \frac{1}{2} = 2)$	
47			Here is an adve	rtisement _		_ (what /	which) mig	ght interest	
		(b) '	This is the place end.		(wher	re / when)	the great k	ing met his	
		(c)	She is the girl	(1	which / wh	om) you sp	oke to over	the phone.	
		4	The people——— efficient.	—— (who	o / whom) 1	nanage thi	s institute a	are not very	
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- (d) There was a tense atmosphere at the meeting. The manager cracked a joke to break the ———— (silence / ice / monotony).
- 9. Rewrite the following sentences in the negative form :

 $(2 \times 1 = 2)$ 

- (a) Both my friend and I went to the class.
- (b) Are we going to start working on our project today?
- Combine the causes and their effects into a single sentence using cause effect words / expressions. (4 × ½ = 2)
  - (a) Agricultural lands have been used for construction. There is a reduction in food production.
  - (b) People are digging bore wells indiscriminately. Groundwater levels have

### been reduced drastically. (c) The police force has been slack in the city. There is a sharp rise in crime rates.

(d) Many educated youth are seeking jobs abroad. The country is facing a brain drain.

PART B —  $(5 \times 16 = 80 \text{ marks})$ 

11. Read the following passage and answer the questions given.

Anybody who doesn't know much about nanotechnology should begin with geckos. These are the lizards that are probably the world's best climbers. Watching them climb upside down on a horizontal pane of glass, you realize that spiderman should really have been called geckoman. These guys outclimb spiders any day.

With perfect ease they can hang from a single toe, and they do so by pure adhesion, not by sticking a toe in a hole or by curling it round something they can grip. With all the toes on the glass scientists estimate that if the rest of the body were strong enough it could take the weight of a 100 kg person suspended below it. Although each toe is equipped with a tiny hook-like claw at the end, these are of no use on the glass. What keeps them up there is the amazing structure of the skin of the toe.

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Seen under the microscope each toe has around two million tiny hairs on its underside. Under the higher magnification of an electron microscope the end of each of these hairs is seen to split into hundreds of even tinier nano-hairs, which scientists have called spatulae. These hairs are so small that they are able to establish contact with the molecular structure of the surface the gecko is walking on. With that near-perfect contact the hairs are stuck to the surface by electromagnetic forces called van der Waals forces. The molecules on the feet and on the surface have areas of slight positive or negative charge that attract each other like mini magnets when they get really close.

Scientists have been working for over 15 years now to try to unlock the secrets of the stickiness of gecko toes and find a way to artificially reproduce the same structure of nano-hairs The hypothesis at the moment is that if any material can be shaped into nano-hairs they will have the same properties as those on gecko toes, so scientists are looking for an alternative material with which to manufacture the stickiest synthetic surface ever.

This is one example of research in the field now known as nanotechnology. In this field, the technology being created can be measured in a few nanometres (one nanometre is a millionth of a millimetre). Interest in developing technology at this level was largely inspired by Richard Feynman at the beginning of the 1960s, but the 'nano' catchphrase was coined in the 1990s by Dr. Eric Drexler, who **spurred** scientists on through a series of speeches and a book entitled "Engines of Creation: The Coming Era of Nanotechnology".

The scientists working on the geckos envisage an enormously wide range of possible applications for the kind of adhesive nanotechnology that they will develop. The one that will make the biggest splash in the media will be the gloves and the boots that will allow rock-dimbers to take their sport to hitherto undreamed of heights. But the technology could also be used in surgery to keep the edges of wounds together without the need for stitches. There will also be a huge potential in the manufacturing sector to stick millions of components together tighter than ever before without glues or screws.



- Choose the correct options to answer the following questions. (10 x 1 = 10)
  - (a) Why is the gecko cited here as an introduction to nanotechnology?
    - To give the reader an idea of nano applications found in nature
    - (ii) To show that the gecko is an example of nanotechnology
    - (iii) To introduce the reader to the scale and size of things that nanotechnology deals with
    - (iv) To make the reader aware of developments in nanotechnology
  - (b) A gecko stays on a surface using -
    - (i) the principle of adhesion
    - (ii) the holes on the surface
    - (iii) its toes to grip the surface
    - (iv) hook like claws

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	(c)		B C C C C C C C C C C C C C C C C C C C	which help it grip the
		surfa		
		(i) ,	Tiny hooks Millions of tiny hairs	
		(ii)	Electrically charged particles	
		(iii)		
	(4)	(iv)	Mini magnets t gives the gecko's toes the ability to m	take contact with the
	(d)	mole	cular structure of the surface they walk o	n?
	-	(i)	Their shape	
		(ii)	Their numbers	
		(iii)	Their size	
		(iv)	Their length	
	(e)	Van	der waals forces are — in natu	re.
		(i)	Mechanical	
		(ii)	Electrical	
		(iii)	Magnetic	
		(iv)	Electromagnetic	
	(f)	Why		
W	V	(i) (ii)	It will help develop applications of various fields.  It will enable them create a clone of a so	adhesive surfaces in
		(iii)	It will make activities such as rock climi	bing much easier.
		(iv)	It will increase bonding between people	and nature.
	(g)	Wha	at is the thrust of research in the field of n	anotechnology?
		(i)	To create materials similar to gecko feet	
		(ii)	To develop technologies the size of nano	metres.
		(iii)	To manufacture synthetic materials.	
		(iv)	To fabricate a new engine.	
	(h)	Wh	en did interest in this technology begin?	
		(i)	1960s	
		(ii)	1990s	
		(iii)	15 years ago	
		(iv)	It is yet to begin	
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- (i) Dr. Eric Drexler named his book "Engines of Creation: The Coming Era of Nanotechnology". By linking nanotechnology to creation, he implies that \_\_\_\_\_\_
  - This new technology can turn man into God.
  - (ii) Nanotechnology is the secret of nature.
  - (iii) Nature's creations are extremely intricate even at the tiniest levels.
  - (iv) Humans can achieve the effects of nature's creations by creating technologies that work at extremely tiny levels.
- (j) Which of the following is not an application of nanotechnology as mentioned in the passage?
  - (i) Adhesive rock climbing gloves and boots
  - (ii) Elimination of surgical sutures
  - (iii) Creation of synthetic gecko toes
  - (iv) Assembly of components without screws and glues
- (II) Choose the option that gives the meaning of the words (highlighted in the passage) as they are used in the passage:  $(6 \times 1 = 6)$ 
  - (a) Estimate
    - (i) Guess
    - (ii) Calculate

(iii) Respect

(iv) Evaluate

Magnification

- (i) Enlargement
- (ii) Exaggeration
- (iii) Enhancement
- (iv) Excellent
- (c) Reproduce
  - (i) Breed
  - (ii) Impersonate
  - (iii) Replicate
  - (iv) Multiply
- (d) Alternative
  - (i) Surrogate
  - (ii) Choice
  - (iii) Resort
  - (iv) Substitute

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		(e) Spurred	
		(i) Inspired	
		(ii) Goaded	
		(iii) Instigated	
		(iv) Coerced	
		(f) Envisage	
		(i) Prophesy	
		(ii) Imagine	
		(iii) Predict	
		(iv) Anticipate	
12.	(a)	Your department conducted a two day workshop on technical writing skills. You were the leader of the organising team. Prepare a short report in about 250 words on the event. (16)	
		Or	
	(b)	You are the President of the Debating Club in your college. You have been asked by the Principal of your college to submit a short report in 250 words on the activities about conducted by the Club in the past three months.	
13.	(a)	Write a set of eight instructions for students who are going to move into	
<b>//</b>	(b)	Write a set of eight instructions for your younger brother isster who is going to write his / her board exams this year. (16)  Write a set of eight recommendations for youth to maintain a healthy	M
14.	(4)	lifestyle. (16)	
		Or	
	(b)	Write a set of eight recommendations for the general public to protect themselves from internet fraud.	
15.	(a)	Narrate in about 250 words your experiences during the extended lockdown. (16)	
		Or	
	(b)	Describe in about 250 words the city / town/ village in which you grew up. (16)	
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