#### iet No. 1

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671	Dental	Science

Question Booklet No
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CE1/17	/ I E G I - B	0/1	Dentai	Science	Question booklet No
	(To b	e filled up b	y the candi	date by blue/	/black-ball-point-pen)
Roll No.					
toll No. Write the d	ligits in words)			****************	
erial No. c	of OMR Answe	r Sheet			
av and Da	ate			******************	. (Signature of Invigilator)

#### INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

- Within 30 minutes of the issue of the Question Booklet, please ensure that you have got the correct Booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
- 2. Do not bring any loose paper, written or blank, inside the Examination Hall except the Admit Card without its envelope.
- 3. A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.
- Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
- On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR Sheet No. on the Question Booklet.
- 7. Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. This Booklet contains 40 multiple choice questions followed by 10 Short Answer Questions. For each MCQ, you are to record the correct option on the Answer Aheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five Short Answer Questions use five Blank pages attached at the end of this Question Booklet.
- 9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question. leave all the circles in the corresponding row blank (such question will be awarded zero mark).
- 1. For rough work, use the inner back pages of the title cover and the blank page at the end of this Booklet.
- Deposit both OMR Answer Sheet and Question Booklet at the end of the Test.
- You are not permitted to leave the Examination Hall until the end of the Test.
- If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

पर्वक निर्देश किरों में अस्तिम आनरण-पृष्ठ पर दिये गए है:

[No. of Printed Pages 112]

# ROUGH WORK

रफ कार्य

# 671 | Dental Science

## Research Entrance Test—2017

No. of Questions/प्रश्नों की संख्या : 50

ime/समय: 2 Hours/घण्टे

Full Marks/पूर्णांक : 200

ote: (1) Th

 This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

इस प्रश्न पुस्तिका में 40 वस्तुनिष्ठ व 10 लघु उत्तरीय प्रश्न हैं।

- (2) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
  - अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न 3 (तीन) अंकों का है। प्रत्येक गलत उत्तर के लिए 1 (एक) अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।
- (3) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

केवल 5 (पाँच) लघु उत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न 16 (सोलह) अंकों का है तथा उनका उत्तर 150-200 शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे 5 (पाँच) पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से. प्रश्न संख्या लिखकर शुरू करें।

# $RET/17/TEST \cdot B/671/Dental \ Science$

1.	Infection of the lower lip spreading	via l	ymph would first enter blood at
	(1) inferior labial vein	(2)	pterygoid plexus
	(3) brachiocephalic vein	(4)	facial vein
2.	Gene responsible for tooth proliferat	ion .	in molars is
	(1) Pax 9 (2) BLL 2	(3)	BRAX Gene (4) MXX Gene
3.	Optimum concentration of fluoride is	n dr	inking water is
	(I) 0-0·5 p.p.m.	(2)	0·5-1 p.p.m.
	(3) 0·7-1·2 p.p.m.	(4)	0-91-4 p.p.m.
4.	An absolute contraindication for extr	racti	on of teeth is
	()   hypertension	(2)	myocardial infarction
	(3) thyrotoxicosis	(4)	central haemangioma
5.	The division of a single tooth resulting tooth is termed as	ng in	one normal and one supernume
	(1) gemination (2) fusion	(3)	concrescence (4) twinning
6.	HAIR ON END appearance in a skul	ll ra	diograph is seen in
	Hi fibrous dysplasia	(2)	Garre's osteomychtis
	क्ष thalassemia	(4)	Paget's disease

7.	Relapse in rotated tooth can be avoided by						
	(1) frenectomy						
	(2) maintaining integrity of arch						
	(3) splinting						
	(4) circumferential supracrestal fiber	erotomy					
8.	Primary denture support area for ma	nandibular complete denture is					
	(1) the ridges	(2) the vestibule					
	(3) palatopharyngeal fold	(4) buccal shelf area					
9.	The Pontic which is hygienic and ea	asy to clean is					
	(1) ridge lap (2) saddle	(3) sanitary (4) round					
10.	Which material is recommended for	restoring the root caries?					
	(1) Zinc oxide eugenol	(2) Glass ionomer cement					
	(3) Silver amalgam	(4) Composites					
11.	Flossing aids can be started at the	age of					
	(1) infants (0-1 year)	(2) toddlers (1-3 years)					
	(3) preschool age (3-6 years)	(4) adolescent age (12-19 years)					
12.	The greatest stress that can be indu	luced in a body without rupture is					
	(1) proportional limit	(2) yield strength					
	(3) tensile strength	(4) ultimate strength					
(57)	5	dP I					

13.	For all practical purposes, the class	sp should have
	(1) high Proportional Limit (PL) an	d low Modulus of Elasticity (MOE)
	(4) siigh PL and high MOE	
	(3) low PL and high MOE	
	(4) low PL and low MOE	
14.	instantage of palatal plate of	over a bar is
	(1) can be thinner	(2) can transfer occlusal load
	Ca covers more tissue	(4) do not worry the tongue
15.	I Proposed	ry anterior teeth for anterior indirect for the following procedures is necessarior guidance?
	(1) Protrusive record	
	(2) Template for provisional restora	ation
	(3) Custom incisal guide table	
	(4) Interocclusal record in centric	relation
16.	What is the common direction of f	racture extension in cracked tooth?
	(1) Faciolingual	(2) Mesiodistal
	- Hogizomal	(4) Apical to coronal
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7.	Preferred pulp test in tooth with me	etal ceramic restoration is
	(1) heat test	(2) electric pulp test
	(3) anaesthetic test	(4) dry ice test
8.	Rate of collagen synthesis is highes	t in
	(1) periodontal ligament	(2) gingiva
	(3) skin	(4) bone
9.	Stippling appears in the children at	the age of
	(1) 1 year (2) 1 month	(3) 2 years (4) 5 years
0.	Highest level of clinical evidence (or	gold standard) is obtained from
	(1) case control studies	(2) cohort studies
	(3) longitudinal studies	(4) meta-analysis, systematic reviews
1.	Ability of an infectious agent to inv	ade and multiply is called
	(1) infectivity	(2) pathogenicity
	(3) virulence	(4) transmission
2.	The student t-test is	
	(1) a test for comparing proportions	5
	(2) a nonparametric test	
	(3) a test for comparing averages	
	(4) a test for comparing variances	

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23.	3. The dental tissue with highest accumulation of fluoride is						
	(L. e.;amel	(2) dentine	(3) pulp	(4) cementum			
24.	Oedema occurs in i lodowing events?	nflammatory stag	e of wound hea	aling due to which one			
	ili Exudate collect	ion and rapid lyr	nphatic draina	age			
	(2) Transudate coll	ection and rapid	lymphatic dra	ainage			
	(3) Exudate collect	ion and lymphati	c obstruction				
	(4) Transudate coll	lection and lymph	natic obstructi	on			
25.	Ethylene oxide which is used for chemical sterilisation is a highly inflammas at room temperature. It is mixed with which one of the following against it safe to use?						
	(i) Carbon dioxide		(2) Oxygen				
	(3) Hydrogen		(4) Halothan	te			
26.	Which one of the fo			a bleeding extraction s			
	(1) Gelatine sponge	2	(2) Figure of	f eight suturing			
	ದೆ) Oxidised regenc	rated cellulose	(4) Tannic a	cid			
27.	Which of the ionic process?	movement durin	g nerve impu	ilse generation is an a			
	(1) Efflux of sodiur	n ions from intra	cellular to ext	tracellular			
	(2) Initial influx of	sodium ions from	n extracellular	r to intracellular			
	(3) Displacement o	f calcium ions fro	om gated char	nnels			
	A billiux of potass	sium ions from n	crve cell				
57)		8					

28.	Patients with which one of the biotransform amide local anaesthetic that of normal individual?		
	(1) Hypotension		
	(2) Presence of atypical pseudocholin	esterase	
	(3) Odontogenic infection		
	(4) Pyrexia		
29.	Most common Laser used in oral sur	rgery is	
	(1) Helium-Neon Laser	(2) Argon Laser	
	(3) Carbon dioxide Laser	(4) Nd-YAG Laser	
30.	Assertion: Posterior surface of impla foramen.	ant should be 5 mm anterior to	menta
	Reason: The mental nerve before anteriorly by 3 mm and loops back		n run
	(1) Both Assertion and Reason are tr of Assertion	ue and Reason is the correct expl	anatior
	(2) Both Assertion and Reason are explanation of Assertion	true and Reason is not the	correc
	(3) Assertion is true but Reason is f	alse	
	(4) Both Assertion and Reason are fa	alse	
(E.E.)	9		3P.T.O
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# RET 17/TEST-B/671/Dental Science

31.	Inability of eye to look to ipsilateral shoulder may indicate which crania? n problem?						
	(1) IIIrd	(2) IVth	(3) IInd	(4) Vth			
32.	Vickers and (	Porlin criteria does	not include				
	(I) hyperchro	matism of basal ce	ll nuclei				
	(2) patisading	and polarization o	f basal cell nuclei				
	(3) cytoplasm	ic vacuolization					
	(4) breach in	basement membras	ne				
33.	In early childhood caries there is early carious involvement of all the follows teeth, except						
	(1) maxillary	anterior teeth	(2) primary 1	st molars			
	(3) mandibula	w 2nd molars	(4) mandibula	ar incisors			
34.	False about d	isclosing agents is					
	(I) these are	used for patient ed	ucation				
	(2) vounger el	aildren are very mu	ich bothered by th	ne discoloration caused			
	(3) examples are—erythrosine, basic fuchsin						
	(4) used in all age groups						
35.	Spontaneous c		ood diastema is mo	re likely when its width			
	, 1)   5 mm	(2) 4 mm	(3) 3 mm	(4) 2 mm			
			10				
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Anterior open bite and maxillary co	nstriction are caused by	
(1) tongue thrusting	(2) thumb sucking	
(3) nail biting	(4) lip biting	
In children, it can be quite difficult t because	o find the sort of positive 'centric rela	ation`
(1) TMJ is not well developed		
(2) articular eminence is not well d	eveloped	
(3) condyle is not well developed		
(4) coronoid process is not well dev	eloped	
_		nes of
(1) First part (2) Second part	(3) Third part (4) Fourth part	
		rm of
(1) Endotracheal intubation	(2) Tracheostomy	
(3) Cricothyroidotomy	(4) Nasopharyngeal airway	
	-	pain
(1) A Alpha and a Beta fibres	(2) A Delta and B fibres	
(3) A Alpha and C fibres	(4) A Delta and C fibres	
11	(P	P.T.O.;
	(1) tongue thrusting (3) nail biting In children, it can be quite difficult to because (1) TMJ is not well developed (2) articular eminence is not well developed (3) condyle is not well developed (4) coronoid process is not well dev Which anatomical part of the maxilla fracture in Le Fort I, II and III type (1) First part (2) Second part Among the following methods, which emergency surgical airway managem (1) Endotracheal intubation (3) Cricothyroidotomy Which one of the following nerve perception from periphery to the CN (1) A Alpha and a Beta fibres (3) A Alpha and C fibres	(3) nail biting (4) lip biting  In children, it can be quite difficult to find the sort of positive 'centric relibecause  (1) TMJ is not well developed  (2) articular eminence is not well developed  (3) condyle is not well developed  (4) coronoid process is not well developed  Which anatomical part of the maxillary artery is closely associated with lifteracture in Le Fort I, II and III types of injury?  (1) First part (2) Second part (3) Third part (4) Fourth part  Among the following methods, which is the preferred and recommended for emergency surgical airway management by ATLS?  (1) Endotracheal intubation (2) Tracheostomy  (3) Cricothyroidotomy (4) Nasopharyngeal airway  Which one of the following nerve fibres are responsible for carrying perception from periphery to the CNS?  (1) A Alpha and a Beta fibres (2) A Delta and B fibres  (3) A Alpha and C fibres (4) A Delta and C fibres

### Short Answer Questions

Note: Attempt any **five** questions. Write answer in **150-200** words. Each questions arries **16** marks. Answer each question on separate page, after write Question Number.

- Meta-analysis.
- 2. Laser in dentistry.
- 3. Need of centric occlusion to coincide with centric relation.
- Relevance of spaced and non-spaced primary dentition and their effects developing occlusion.
- 5. Development of lip and palate.
- 6. Basic Life Support (BLS).
- 7. Dental management of hemophilic patient.
- 8. Sampling methods.
- 9. Bone scan.
- 10. Dental implants.

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### ROUGH WORK

रफ़ कार्य

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# **ROUGH WORK**

रफ़ कार्य

# अभ्यर्थियों के लिए निर्देश

- .२२ प्रोत्तका के प्रधन आवरण-पृष्ट पर तथा उत्तर-एवं के <mark>दोनों पृष्टीं पर केवल नीर्स्त या कासी बाल-प्लाइंट पेन से</mark> ही लि
- 1. प्रथम परित्रका निरुत्तके के 30 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद है और कोई पृष्ट प्रका शुरू नहीं है। पृथ्विका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश् की दूसने पश्चिका प्राप्त कर लें।
- 2 मीम भवन म लिएसएस रहित प्रवेश-पत्र के अतिरिक्त, लिखा या मादा कोई भी खुला कागज साथ में न लायें:
- अन्य एवं अपार भे दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा, केवल 3 पत्र का ही मुख्यांकत किया जायेगा।
- अपने अनुद्रामांक नथा उत्तर पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पैन से निर्धारित स्थान पर लिखें।
- 5. उत्तर पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाउँ। कर जहाँ जहाँ आवश्यक हो वहाँ प्रश्न पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
- 6. ऑल एमल अल्ड पत्र पत्र अनुक्रमहंक संख्या, प्रशन पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रशन-पुस्तिका अनुक्रमांक यंत्र और ओल एमल आरल पत्र संव की प्रविष्टियों में उपस्लिखन की अनुमति नहीं है।
- ७ राज्यीत प्रक्रियों में कोई भी परिवर्तन कक्ष निर्शेक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुवित साधन का प्र माना जावेगा
- 8. इस प्रथम पृथ्विका में 40 वस्तुनिष्ठ व 10 लघु उत्तरीय प्रथम हैं। प्रश्न-पुस्तिका में प्रत्येक प्रथम के चार वैकाल उत्तर कि लिये आपको उत्तर-पत्र की सम्बन्धित पिक्त के सामने विवे वृत की उत्तर पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाड़ा करना हैं। लघु उत्तरीय प्रथमों के इस पृथ्विका में लगे। हुए सादे 5 (पाँच) पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रथम का उत्तर एक नण से. प्रश्न संख्या लिखकर शुरू करें।
- 9. प्रसंख्य प्रथम के उत्तर के लिये केवल एक ही यून को माहा करें। एक में अधिक वृत्तों को माहा करने 'पर अथवा' यून को अपन भरने पर वह उत्तर भरत माना जायेगा
- 10. १४८ व अ क वम्म स्थाही द्वारा अधिकत उत्तर खदलाः नहीं आ सकता है। यदि आप किसी प्रश्त का उत्तर नहीं देना क है जो अस्थान्यत पीकि के सामने दिये गये सभी वानों को खाली छोड़ हैं। ऐसे प्रश्नों पर शुन्य अंक दिये जायें।
- रफ् कर के १५४ प्रश्न पुस्तिका के मुखपृष्ठ के अन्तर वाले ५८ तथा अंतिम आखरण पृष्ट का प्रयोग करें।
- 12. वराक्ष के नकारत और ए**मर आरंग उत्तर-पत्र व प्रक्रन-पुस्तिका दोनों प**रीक्षा भवन में जमा कर है।
- र । १८ १८ । १५ में पहले परीक्षा भवन से बाहर हाने की अनुसति नहीं होगी।
- 14. यात कीर्ड अध्यक्षी पर्यक्षा में अमुद्धित साधनों का प्रयंग करता है भी यह विश्वविद्यालय द्वार निधारित देव कर का क हो। याः